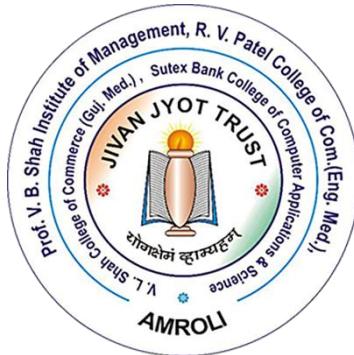


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VEER NARMAD SOUTH GUJARAT UNIVERSITY, SURAT**



**PROJECT DOCUMENTATION  
ON  
ONLINE SHOPPING SYSTEM**

**AS A PARTIAL REQUIREMENT FOR THE DEGREE  
OF**

**BACHELOR OF COMPUTER APPLICATION  
(B.C.A.)**

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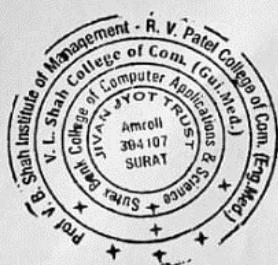
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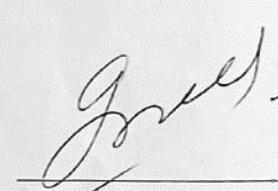
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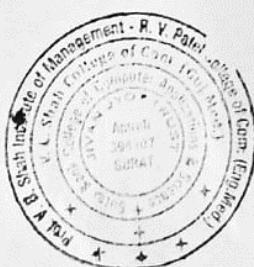
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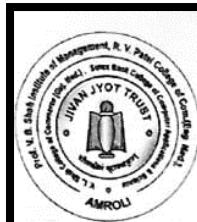
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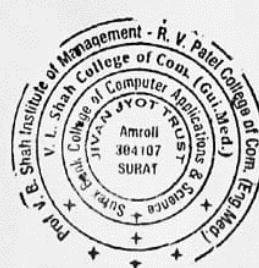
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My thanks and appreciations also go to my colleague in developing the project and people who have willingly helped me out with their abilities.

## ABSTRACT

An online shopping system that permits a customer to submit online orders for items and/or services from a store that serves both walk-in customers and online customers. The online shopping system presents an online display of an order cut off time and an associated delivery window for items selected by the customer.

The system accepts the customer's submission of a purchase order for the item in response to a time of submission being before the order cut off time. The online shopping system does not settle with a credit supplier of the customer until the item selected by the customer is picked from inventory but before it is delivered. Therefore, the customer can go online and make changes to the order. In addition, available service windows are presented to the customer as a function of customer selected order and service types and further, the order picking is assigned in accordance with a picker's preference. When ordering goods, many shopping systems provide a virtual shopping cart for holding items selected for purchase

Successive items selected for purchase are placed into the virtual shopping cart until a customer completes their shopping trip. Virtual shopping carts may be examined at any time, and their contents can be edited or deleted at the option of the customer. Once the customer decides to submit a purchase order, the customer may print the contents of the virtual shopping basket in order to obtain a hard copy record of the transaction.

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## ABBREVIATIONS

Provide definitions or references to all the definitions of the special terms and acronyms used within this document.

<u>ACRONYMS</u>	<u>DEFINITION</u>
<b>OSS</b>	Online Shopping system
<b>DFD</b>	Data flow diagram
<b>ERD</b>	Entity Relationship Diagram
<b>Admin</b>	A person who manages the entire system.
<b>Customer</b>	A person who can find the products.
<b>Management</b>	Who take cares that site goes smoothly.
<b>Web-based application</b>	An application that runs on the Internet.
<b>Login</b>	A user identification number to enter the system

## CHAPTER 1

INTRODUCTION

This project is a web based shopping system for an existing shop. The project objective is to deliver the online shopping application into android platform.

Online shopping is the process whereby consumers directly buy goods or services from a seller in real-time, without an intermediary service, over the Internet. It is a form of electronic commerce. This project is an attempt to provide the advantages of online shopping to customers of a real shop. It helps buying the products in the shop anywhere through internet by using an android device. Thus the customer will get the service of online shopping and home delivery from his favorite shop.

## **1.1 Project Description**

The central concept of the application is to allow the customer to shop virtually using the Internet and allow customers to buy the items and articles of their desire from the store. The information pertaining to the products are stores on an RDBMS at the server side (store).

The Server process the customers and the items are shipped to the address submitted by them. The application was designed into two modules first is for the customers who wish to buy the articles. Second is for the storekeepers who maintains and updates the information pertaining to the articles and those of the customers. The end user of this product is a departmental store where the application is hosted on the web and the administrator maintains the database. The application which is deployed at the customer database, the details of the items are brought forward from the database for the customer view based on the selection through the menu and the database of all the products are updated at the end of each transaction. Data entry into the application can be done through various screens designed for various levels of users. Once the authorized personnel feed the relevant data into the system, several reports could be generated as per the security.

## **1.2 Project Profile**

**The project objective is to deliver the online shopping application.** This project is an attempt to provide the advantages of online shopping to customers of a real shop. It helps buying the products in the shop anywhere through internet by using an android device.

Project Title	Online Shopping System
---------------	------------------------

<b>Organization</b>	Home base
<b>Development Tools</b>	Front End : React JS, javascript Back End : MongoDB
<b>Language</b>	HTML, CSS, JAVASCRIPT, ReactJS, jQuery
<b>Platform</b>	Windows10
<b>Documentation Tools</b>	Microsoft Office
<b>Guide</b>	Ms. Priynka Chauhan
<b>Submitted to</b>	Sutex Bank College Of Computer pplication & Science Amroli, Surat.

## CHAPTER 2

**ENVIRONMENT DESCRIPTION**

Online shopping is a form of electronic commerce which allows consumers to directly buy goods or services from a seller over the Internet using a web browser or a mobile app. Consumers find a product of interest by visiting the website of the retailer directly or by searching among alternative vendors using a shopping search engine, which displays the same product's availability and pricing at different e-retailers. As of 2020, customers can shop online using a range of different computers and devices, including desktop computers, laptops.

**2.1 Hardware And Software Requirement**

- Operating systems : Microsoft windows
- Hardware Specification
  - Processor intel core i5
  - RAM 250 MB
  - Minimum Space Required 100 MB
  - Display 16 bit color
- Software Specification
  - Operating Environment Windows10 (64 bit)
  - Platform React JS
  - Database Mongodb

**2.2 Technology Used**

The various system tools that have been used in developing both the front end and the back end of the project are being discussed in this chapter.

**➤ FRONT END:**

React JS, HTML, CSS, JAVA SCRIPT are utilized to implement the frontend.

- **React Server Pages (React JS)**

React (also known as React.js or ReactJS) is a free and open-source front-end JavaScript library for building user interfaces based on UI components. It is maintained by Meta (formerly Facebook) and a community of individual developers and companies. React can be used as a base in the development of single-page, mobile, or server-rendered applications with frameworks like Next.js.

However, React is only concerned with state management and rendering that state to the **DOM**, so creating React applications usually requires the use of additional libraries for routing, as well as certain client-side functionality.

- **HTML (Hyper Text Markup Language)**

HTML is a syntax used to format a text document on the web.

- **CSS (Cascading Style Sheets)**

CSS is a style sheet language used for describing the look and formatting of a document written in a markup language.

- **Java Script**

JS is a dynamic computer programming language. It is most commonly used as part of web browsers, whose implementations allow client-side scripts to interact with the user, control the browser, communicate asynchronously, and alter the document content that is displayed.

Java Script is used to create pop up windows displaying different alerts in the system like “User registered successfully”, ”Product added to cart” etc.

## ➤ **BACK END**

The back end is implemented using MongoDB which is used to design the databases.

**MongoDB** is a document-oriented NoSQL database used for high volume data storage. Instead of using tables and rows as in the traditional relational databases, MongoDB makes use of collections and documents. Documents consist of key-value pairs which are the basic unit of data in MongoDB.

Collections contain sets of documents and function which is the equivalent of relational database tables. MongoDB is a database which came into light around the mid-2000s.

## CHAPTER 3

**SYSTEM ANALYSIS AND PLANNING**

System analysis is the process of gathering and interpreting facts, diagnosing problems and using the information to recommend improvements on the system. System analysis is a problem solving activity that requires intensive communication between the system users and system developers.

System analysis or study is an important phase of any system development process. The system is viewed as a whole, the inputs are identified and the system is subjected to close study to identify the problem areas. The solutions are given as a proposal. The proposal is reviewed on user request and suitable changes are made. This loop ends as soon as the user is satisfied with the proposal.

### **3.1 Existing System and its Drawbacks**

The current system for shopping is to visit the shop manually and from the available product choose the item customer want and buying the item by payment of the price of the item . It is less user-friendly.

1. User must go to shop and select products.
2. It is difficult to identify the required product.
3. Description of the product limited.
4. It is a time consuming process
5. Not in reach of distant users.

### **3.2 Feasibility Study**

A feasibility study aims to objectively and rationally uncover the strengths and weaknesses of an existing business or proposed venture, opportunities and threats present in the environment, the resources required to carry through, and ultimately the prospects for success. In its simplest terms, the two criteria to judge feasibility are cost required and value to be attained.

A well-designed feasibility study should provide a historical background of the business or project, a description of the product or service, accounting statements, details of the operations and management, marketing research and policies, financial data, legal requirements and tax obligations. Generally, feasibility studies precede technical development and project implementation.

A feasibility study evaluates the project's potential for success; therefore, perceived objectivity is an important factor in the credibility of the study for potential investors and lending institutions. It must therefore be conducted with an objective, unbiased approach to provide information upon which decisions can be based.

The acronym TELOS refers to the five areas of feasibility - Technical, Economic, Legal, Operational, and Scheduling.

This assessment is based on an outline design of system requirements, to determine whether the company has the technical expertise to handle completion of the project. When writing a feasibility report, the following should be taken to consideration:

- A brief description of the business to assess more possible factors which could affect the study

We are students and developing desktop application so first we are learning and then develop the project.

#### ➤ Economic feasibility

The purpose of the economic feasibility assessment is to determine the positive economic benefits to the organization that the proposed system will provide. It includes quantification and identification of all the benefits expected. This assessment typically involves a cost/ benefits analysis.

#### ➤ Legal feasibility

Operational feasibility is a measure of how well a proposed system solves the problems, and takes advantage of the opportunities identified during scope definition and how it satisfies the requirements identified in the requirements analysis phase of system development.

The operational feasibility assessment focuses on the degree to which the proposed development projects fits in with the existing business environment and objectives with regard to development schedule, delivery date, corporate culture, and existing business processes.

#### ➤ Schedule feasibility

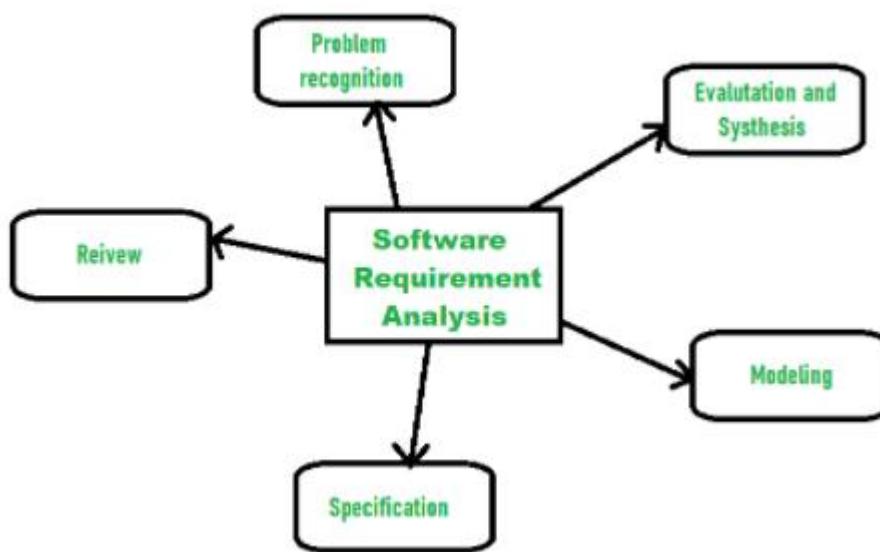
A project will fail if it takes too long to be completed before it is useful. Typically, this means estimating how long the system will take to develop, and if it can be completed in a given time period using some methods like payback period. Schedule feasibility is a measure of how reasonable the project timetable is. Given our technical expertise, are the project deadlines reasonable? Some projects are initiated with specific deadlines. It is necessary to determine whether the deadlines are mandatory or desirable.

### 3.3 Requirement Gathering and Analysis

- Software requirement:

Software requirement means requirement that is needed by software to increase quality of software product. These requirements are generally a type of expectation of user from software product that is important and need to be fulfilled by software. Analysis means to examine something in an organized and specific manner to know complete details about it.

Therefore, **Software requirement analysis** simply means complete study, analyzing, describing software requirements so that requirements that are genuine and needed can be fulfilled to solve problem. There are several activities involved in analyzing Software requirements. Some of them are given below :



- Problem Recognition:

The main aim of requirement analysis is to fully understand main objective of requirement that includes why it is needed, does it add value to product, will it be beneficial, does it increase quality of the project, does it will have any other effect. All these points are fully recognized in problem recognition so that requirements that are essential can be fulfilled to solve business problems.

- Evaluation and Synthesis:

Evaluation means judgement about something whether it is worth or not and synthesis means to create or form something. Here are some tasks are given that is important in the evaluation and synthesis of software requirement :

- To define all functions of software that necessary.
- To define all data objects that are present externally and are easily observable.
- To evaluate that flow of data is worth or not.
- To fully understand overall behavior of system that means overall working of system.
- To identify and discover constraints that are designed.
- To define and establish character of system interface to fully understand how system interacts with two or more components or with one another.

➤ Modeling:

After complete gathering of information from above tasks, functional and behavioral models are established after checking function and behavior of system using a domain model that also known as the conceptual model.

➤ Specification:

The software requirement specification (SRS) which means to specify the requirement whether it is functional or non-functional should be developed.

➤ Review :

After developing the SRS, it must be reviewed to check whether it can be improved or not and must be refined to make it better and increase the quality.

## CHAPTER 4

**PROPOSED SYSTEM****4.1 Project Scope:**

This system can be implemented to any shop in the locality or to multinational branded shops having retail outlet chains. The system recommends a facility to accept the orders 24\*7 and a home delivery system which can make customers happy.

If shops are providing an online portal where their customers can enjoy easy shopping from anywhere, the shops won't be losing any more customers to the trending online shops such as flipcart or ebay. Since the application is available in the Smartphone it is easily accessible and always available.

**4.2 Project Modules:**

The system after careful analysis has been identified to be presented with the following modules and roles.

The modules involved are:

- Administrator
- Moderators
- Users

**4.3 Module Vice Objectives:****4.3.1 ADMINISTRATOR:**

The administrator is the super user of this application. Only admin have access into this admin page. Admin may be the owner of the shop. The administrator has all the information about all the users and about all products.

This module is divided into different sub-modules.

1. Manage Moderators
2. Manage Products
3. Manage Users
4. Manage Orders

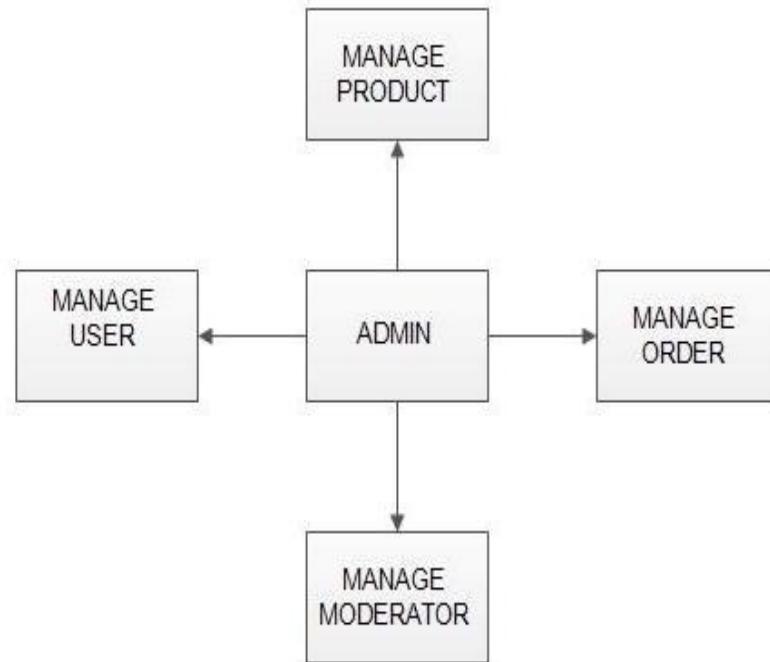


Fig 1: Admin module

➤ MANAGE MODERATOR

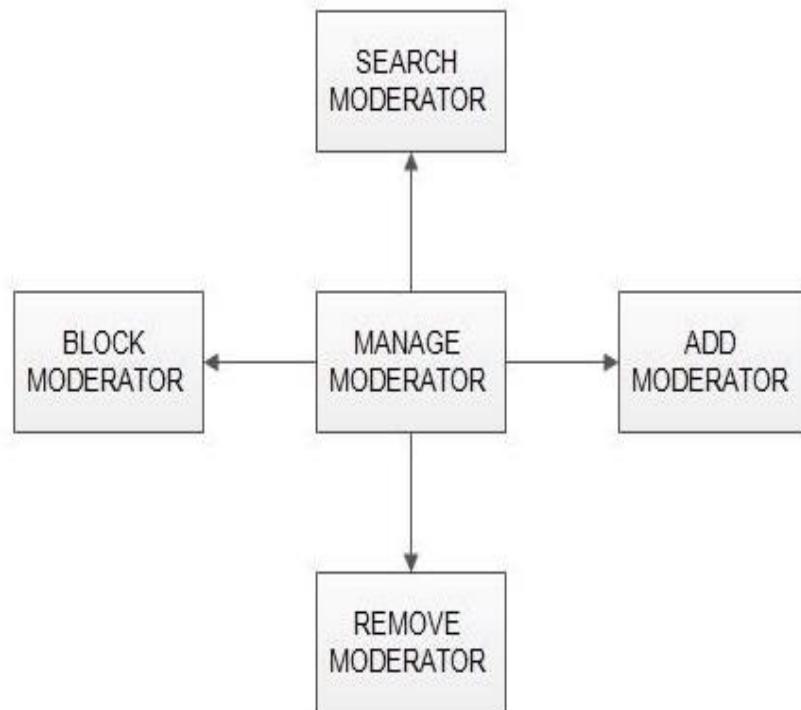


Fig 2: Manage Moderator

### Add Moderator

Only admin is having the privilege to add a moderator. A moderator can be considered as a staff who manages the orders or owner of a group of products.

### Block moderator

Admin can restrict a moderator from managing the orders by blocking them. Admin can unblock a blocked user if needed.

### Remove Moderator

Admin has privilege to delete a moderator who was added.

### Search moderator:

All existing moderators can be viewed by the administrator as a list. If there is number of moderators and admin need to find one of them, the admin can search for a moderator by name.

## ➤ MANAGE PRODUCTS

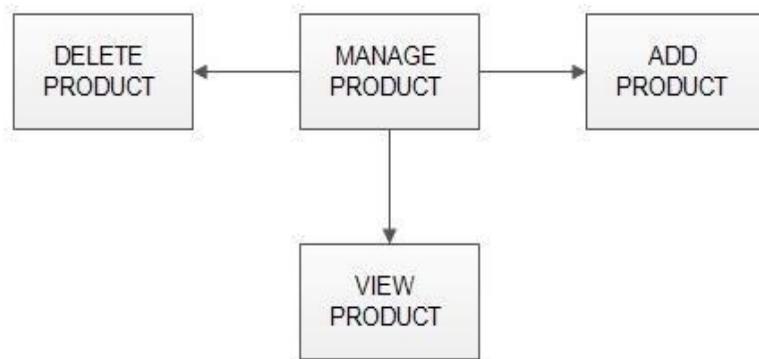


Fig 3: Manage Products

### Add Products

The shopping cart project contains different kind of products. The products can be classified into different categories by name. Admin can add new products into the existing system with all its details including an image.

### Delete Products

Administrator can delete the products based on the stock of that particular product.

### Search products

Admin will have a list view of all the existing products. He can also search for a particular product by name.

## ➤ MANAGE USER

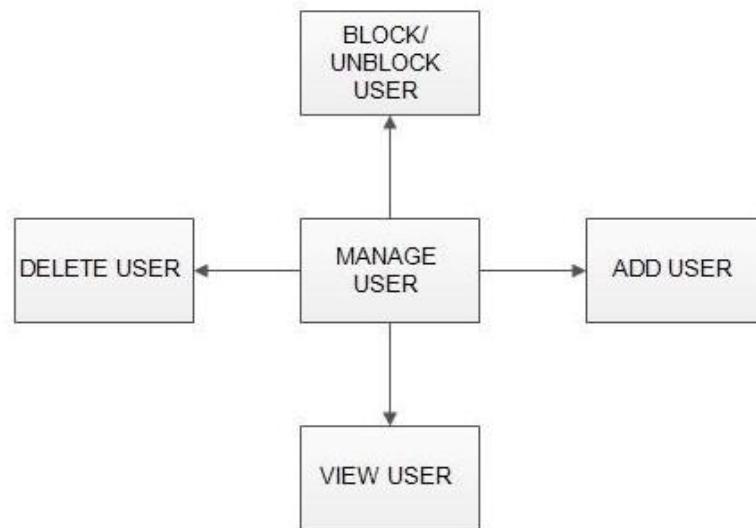


Fig 4: Manage User

### View Users

The admin will have a list view of all the users registered in the system.

Admin can view all the details of each user in the list except password.

### Add Users

Admin has privileges to add a user directly by providing the details.

### Delete &Block Users

Administrator has a right to delete or block a user. The default status of a new user registered is set as blocked.

The admin must accept the new user by unblocking him.

## ➤ MANAGE ORDERS



Fig 5: Manage Orders

### View Order

Administrator can view the Orders which is generated by the users. He can verify the details of the purchase.

### Delete order

Admin can delete order from the orders list when the product is taken for delivery.

#### 4.3.2 MODERATORS

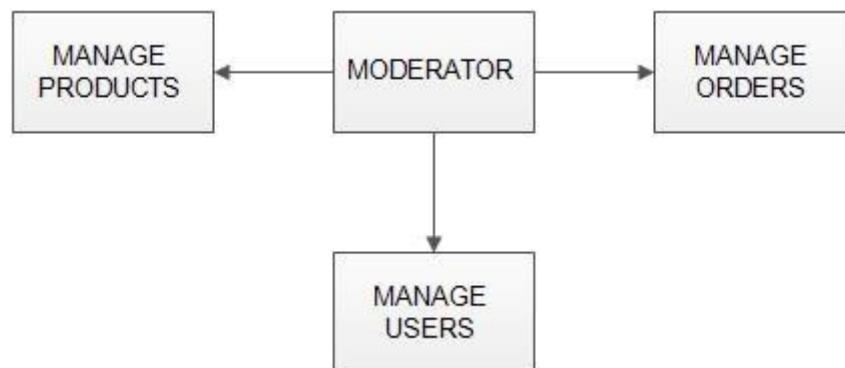


Fig 6: Moderator Module

A moderator is considered as a staff who can manage orders for the time being. As a future update moderator may give facility to add and manage his own products . Moderators can reduce the work load of admin. Now moderator has all the privilege an admin having except managing other moderators. He can add products and users. He can also check the orders and edit his profile.

- Manage products
- Manage users
- Manage orders

#### 4.3.3 USERS

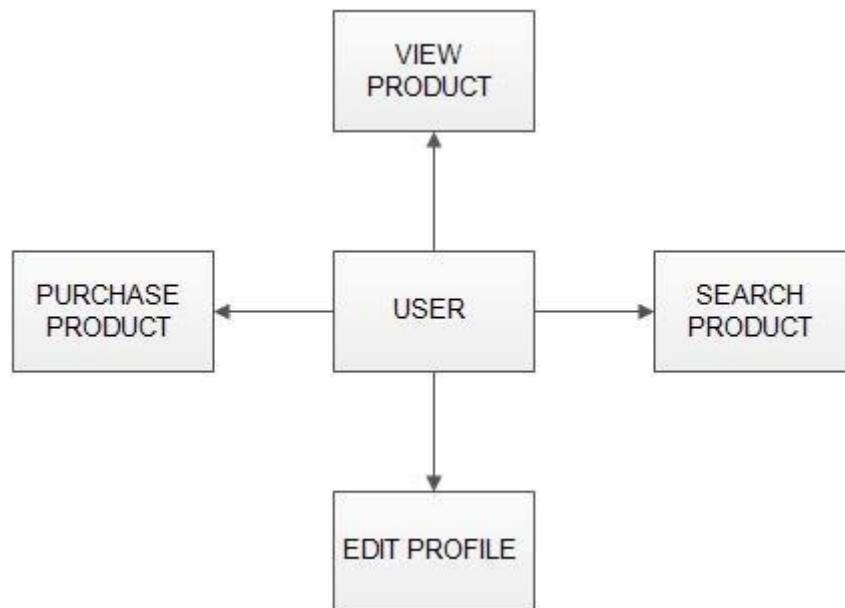


Fig 7: User Module

### Registration

A new user will have to register in the system by providing essential details in order to view the products in the system. The admin must accept a new user by unblocking him.

### Login

A user must login with his user name and password to the system after registration.

### View Products

User can view the list of products based on their names after successful login. A detailed description of a particular product with product name, products details, product image, price can be viewed by users.

### Search Product

Users can search for a particular product in the list by name.

#### ➤ Add to cart:

The user can add the desired product into his cart by clicking add to cart option on the product.

He can view his cart by clicking on the cart button. All products added by cart can be viewed in the cart. User can remove an item from the cart by clicking remove.

#### ➤ Submit Cart:

After confirming the items in the cart the user can submit the cart by providing a delivery address. On successful submitting the cart will become empty.

#### ➤ History

In the history the user will have a view of pending orders.

### Edit Profile

The user can view and edit the profile.

## **4.4 Expected Advantage**

Shopping is made easier and convenient for the customer through the internet.

### Why shop Online

- Saves time and efforts.
- The convenience of shopping at home.
- Wide variety/range of products are available.
- Good discounts / lower prices.
- Get detailed information about the product.
- We can compare various models/brands.

## CHAPTER 5

**DETAIL PLANNING**

## **5.1 Data Flow Diagram/Uml**

A Data Flow Diagram (DFD) is a structured analysis and design tool that can be used for flowcharting. A DFD is a network that describes the flow of data and the processes that change or transform the data throughout a system. This network is constructed by using a set of symbols that do not imply any physical implementation. It has the purpose of clarifying system requirements and identifying major transformations. So it is the starting point of the design phase that functionally decomposes the requirements specifications down to the lowest level of detail. DFD can be considered to an abstraction of the logic of an information-oriented or a process-oriented system flow-chart. For these reasons DFD's are often referred to as logical data flow diagrams.

### ➤ EXTERNAL ENTITY

An external entity is a source or destination of a data flow. Only those entities which originate or receive data are represented on a data flow diagram. The symbol used is a rectangular box.

### ➤ PROCESS

A process shows a transformation or manipulation of data flow within the system. The symbol used is an oval shape.

### ➤ DATAFLOW

The data flow shows the flow of information from a source to its destination. Data flow is represented by a line, with arrowheads showing the direction of flow. Information always flows to or from a process and may be written, verbal or electronic. Each data flow may be referenced by the processes or data stores at its head and tail, or by a description of its contents.

### ➤ DATA STORE

A data store is a holding place for information within the system: It is represented by an open ended narrow rectangle. Data stores may be long-term files such as sales ledgers, or may be short-term accumulations: for example batches of documents that are waiting to be processed. Each data store should be given a reference followed by an arbitrary number.

➤ LOGIN DFD

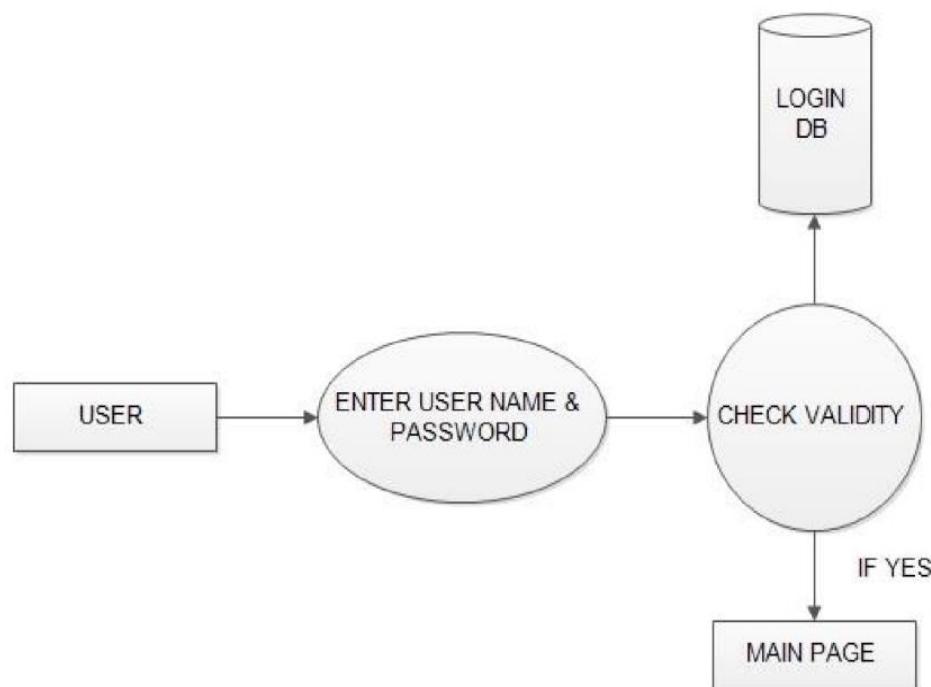


Fig 8: Login DFD

➤ REGISTRATION DFD

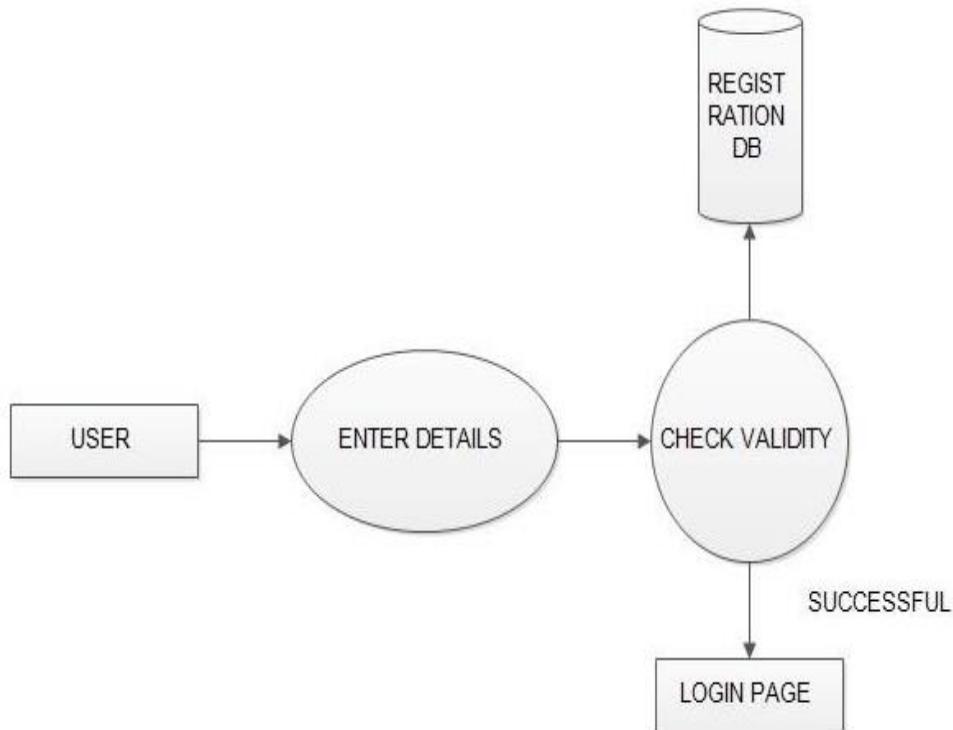


Fig 9: Registration DFD

## ➤ ADMIN DFD

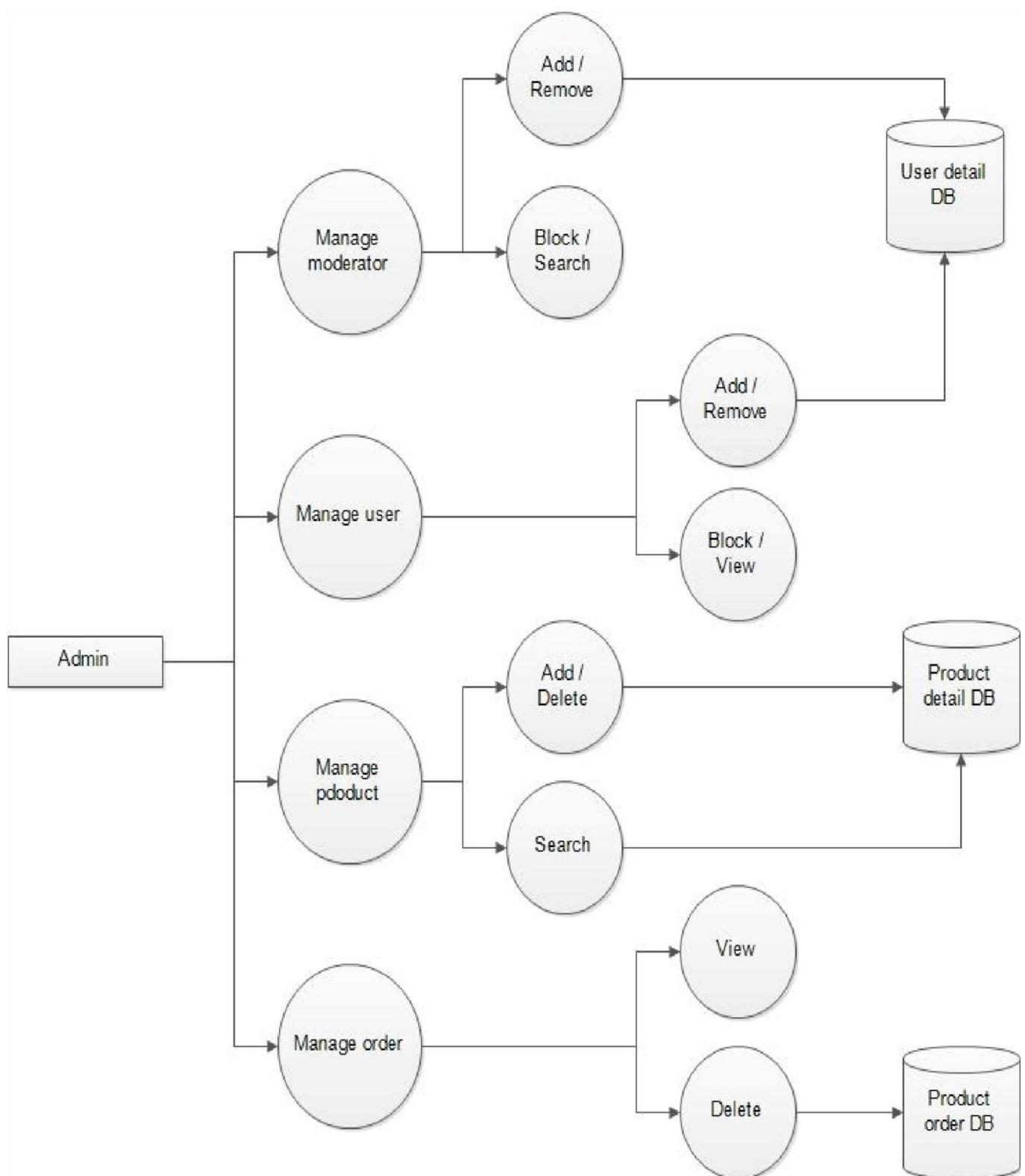


Fig 10: Admin DFD

## ➤ MODERATOR DFD

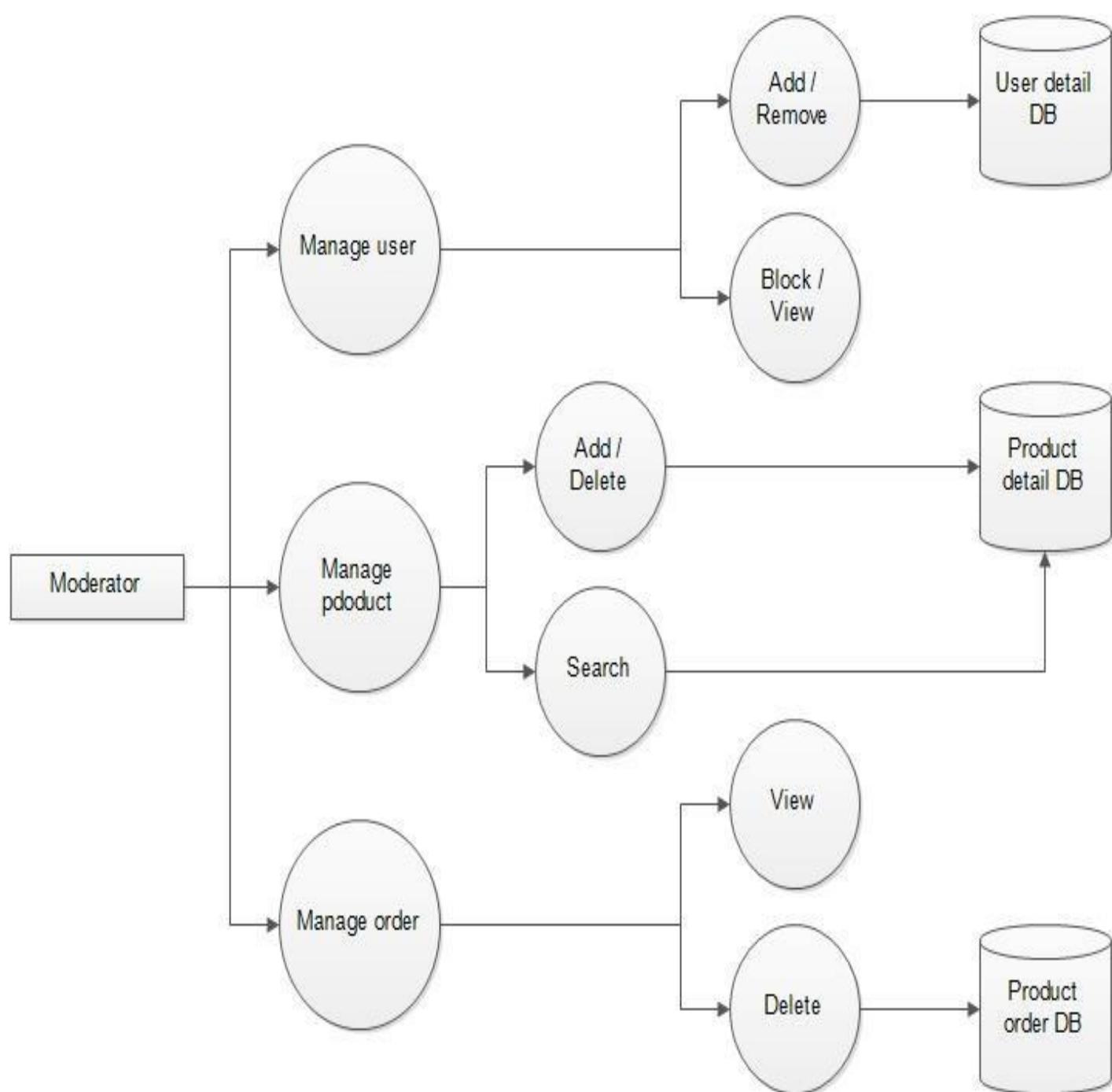


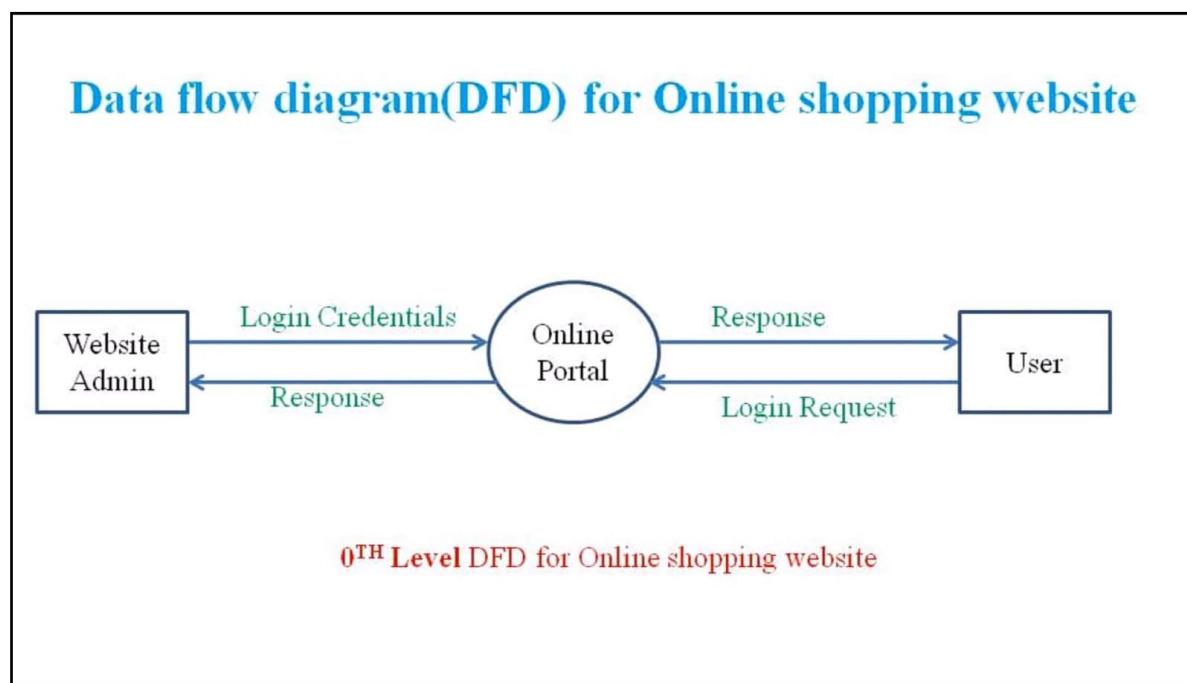
Fig 11: Moderator DFD

## Data flow diagram symbol

Symbol	Description
	<b>Data Flow</b> – Data flow are pipelines through the packets of information flow.
	<b>Process</b> : A Process or task performed by the system.
	<b>Entity</b> : Entity are object of the system. A source or destination data of a system.
	<b>Data Store</b> : A place where data to be stored.

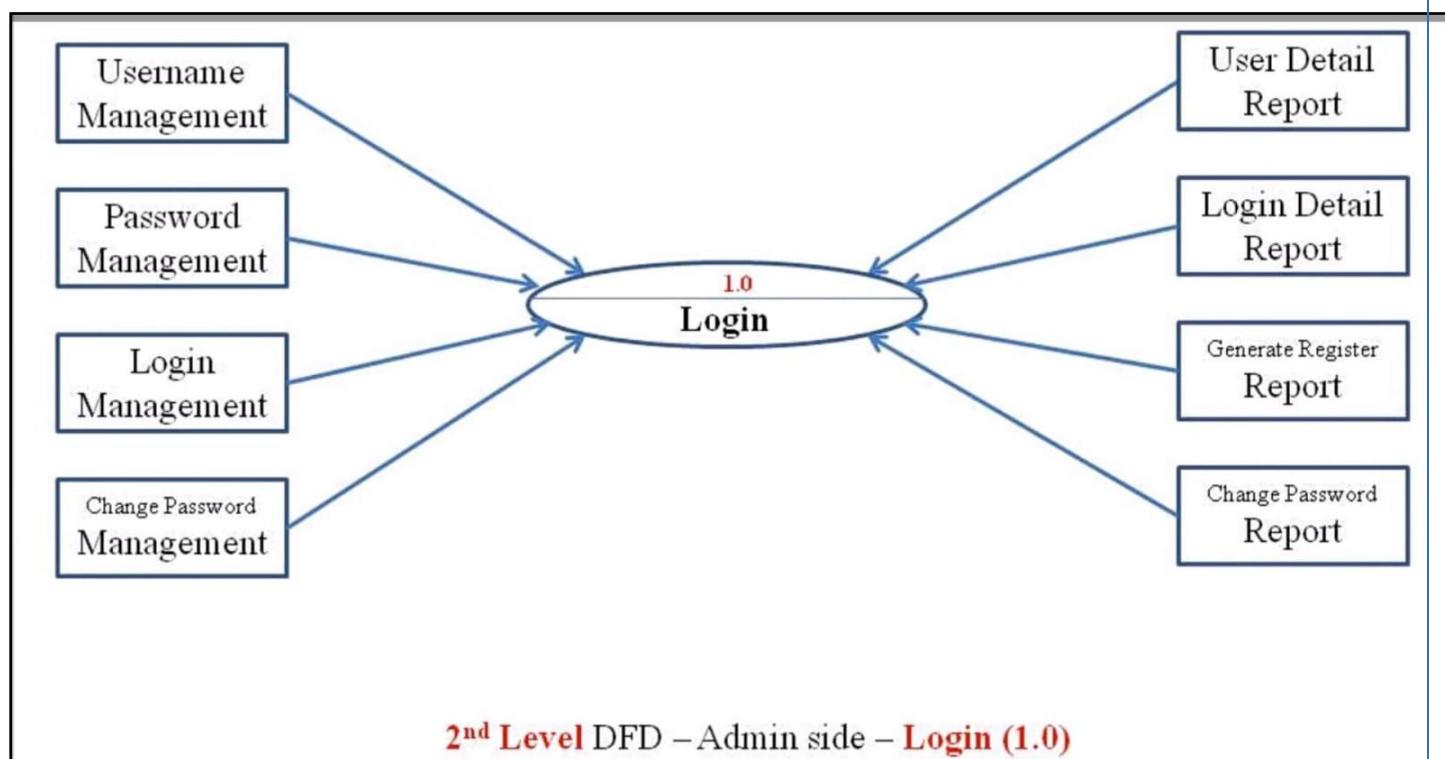
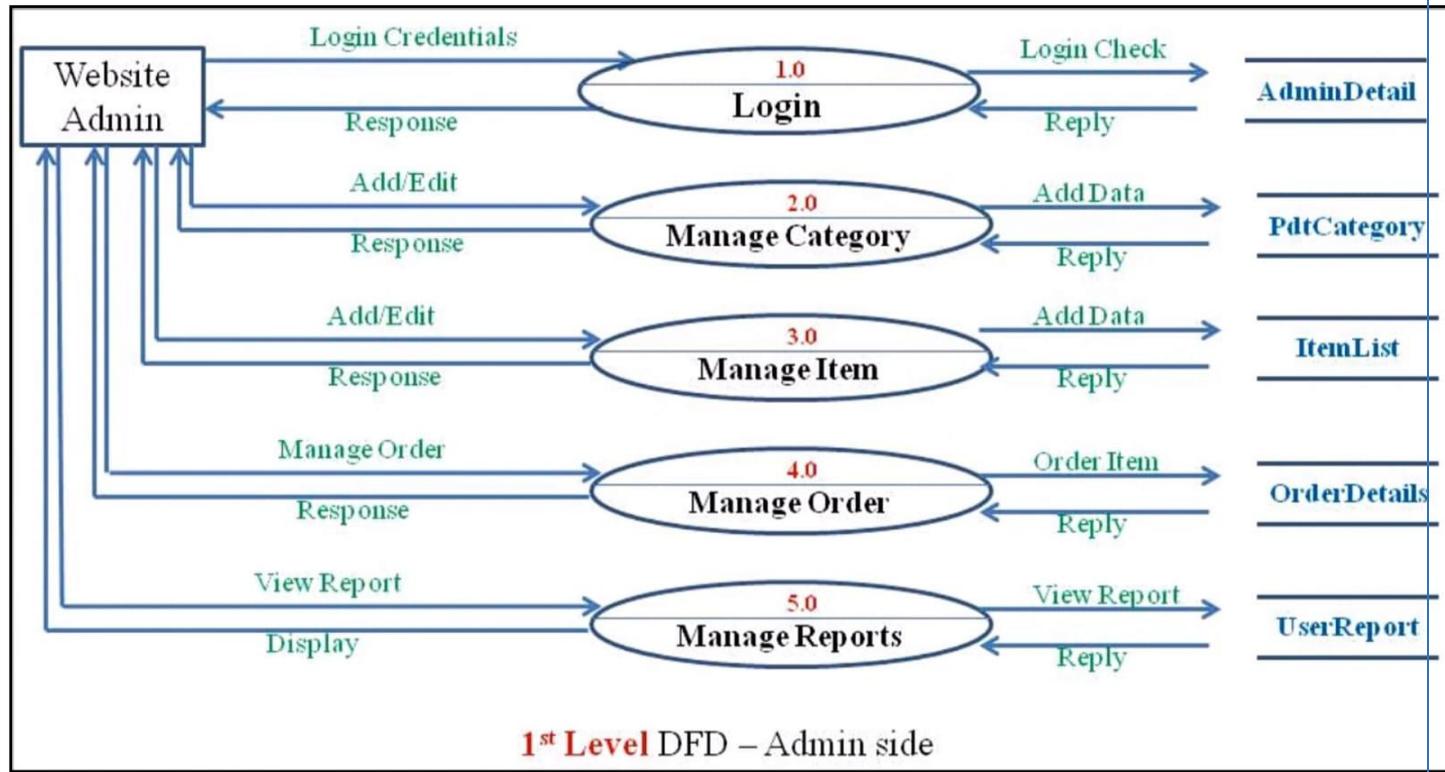
### Context level DFD – 0 level

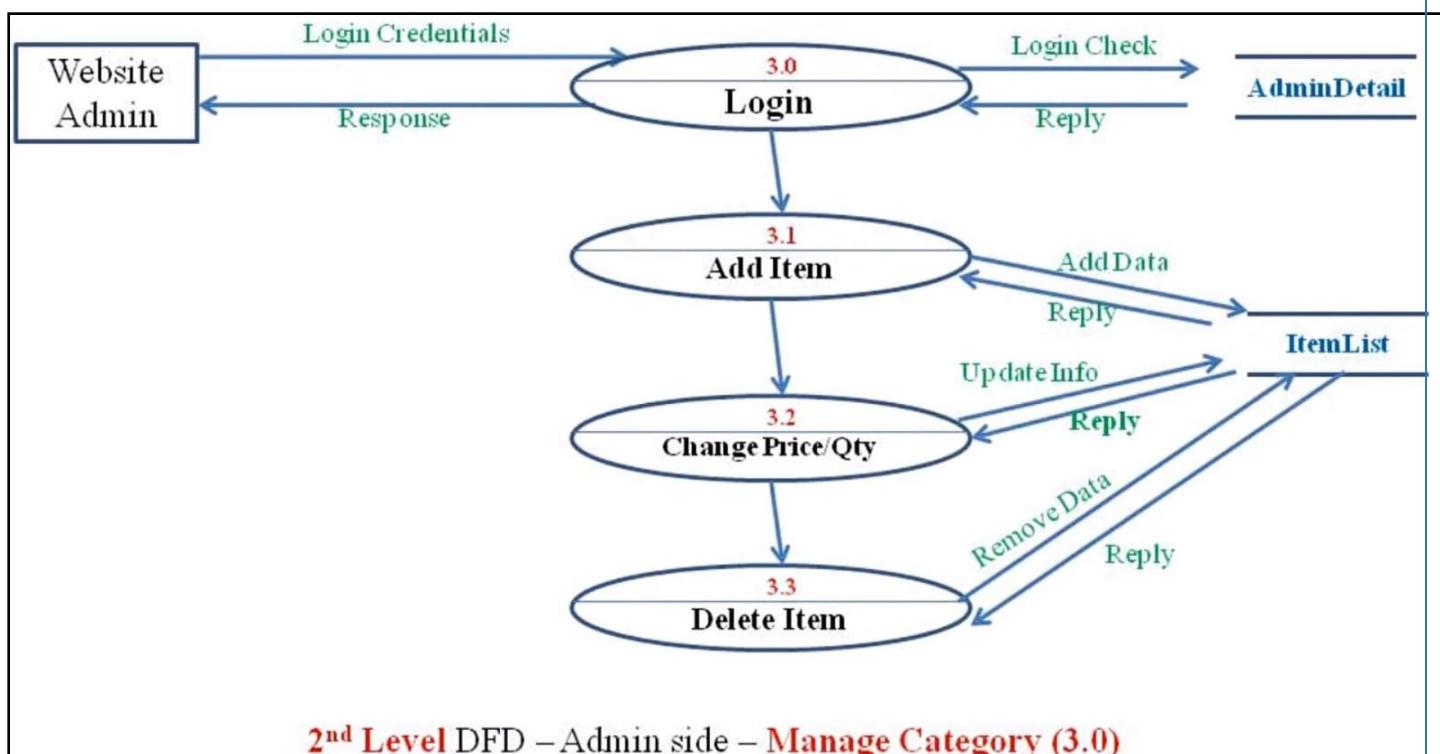
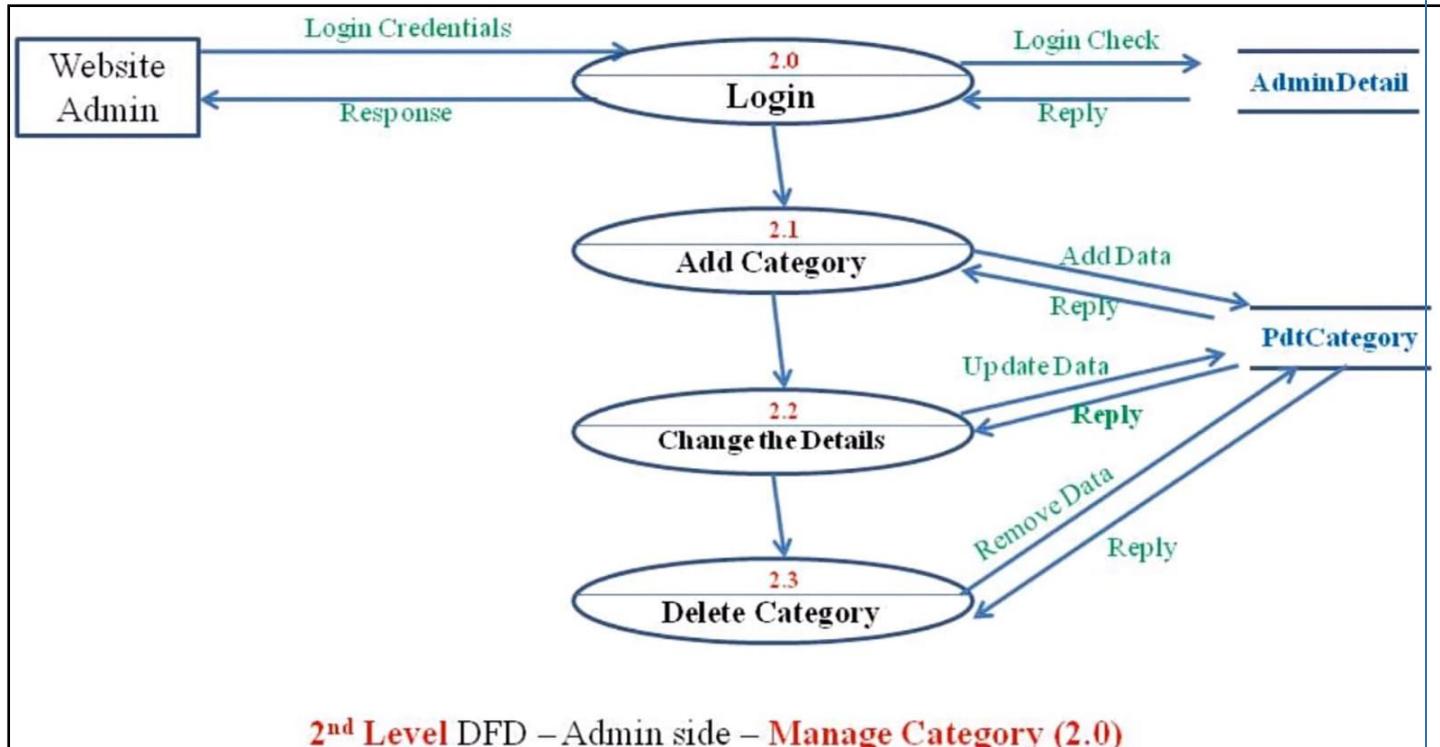
The context level data flow diagram (dfd) is describe the whole system. The (0) level dfd describe the all user module who operate the system. Below data flow diagram of online shopping site shows the two user can operate the system Admin and Member user.

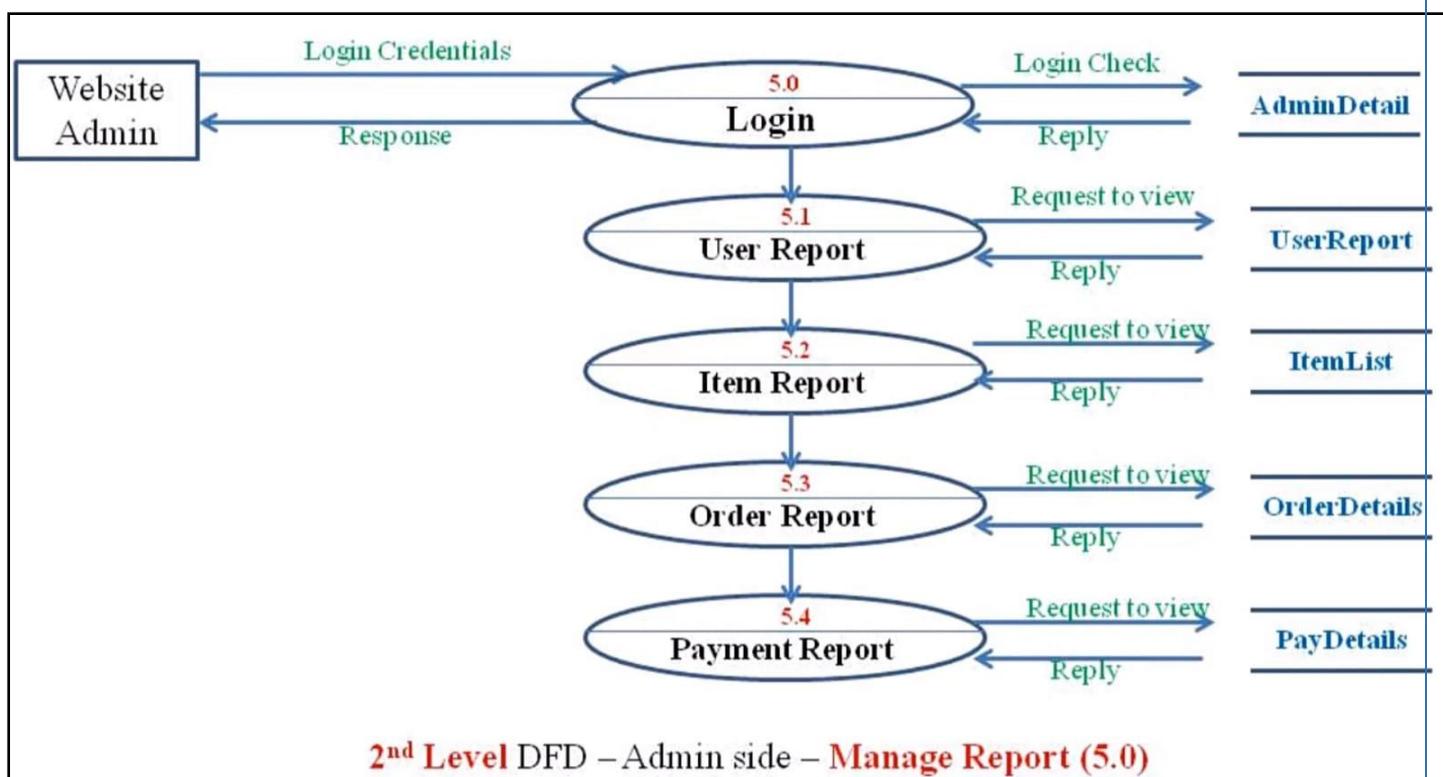
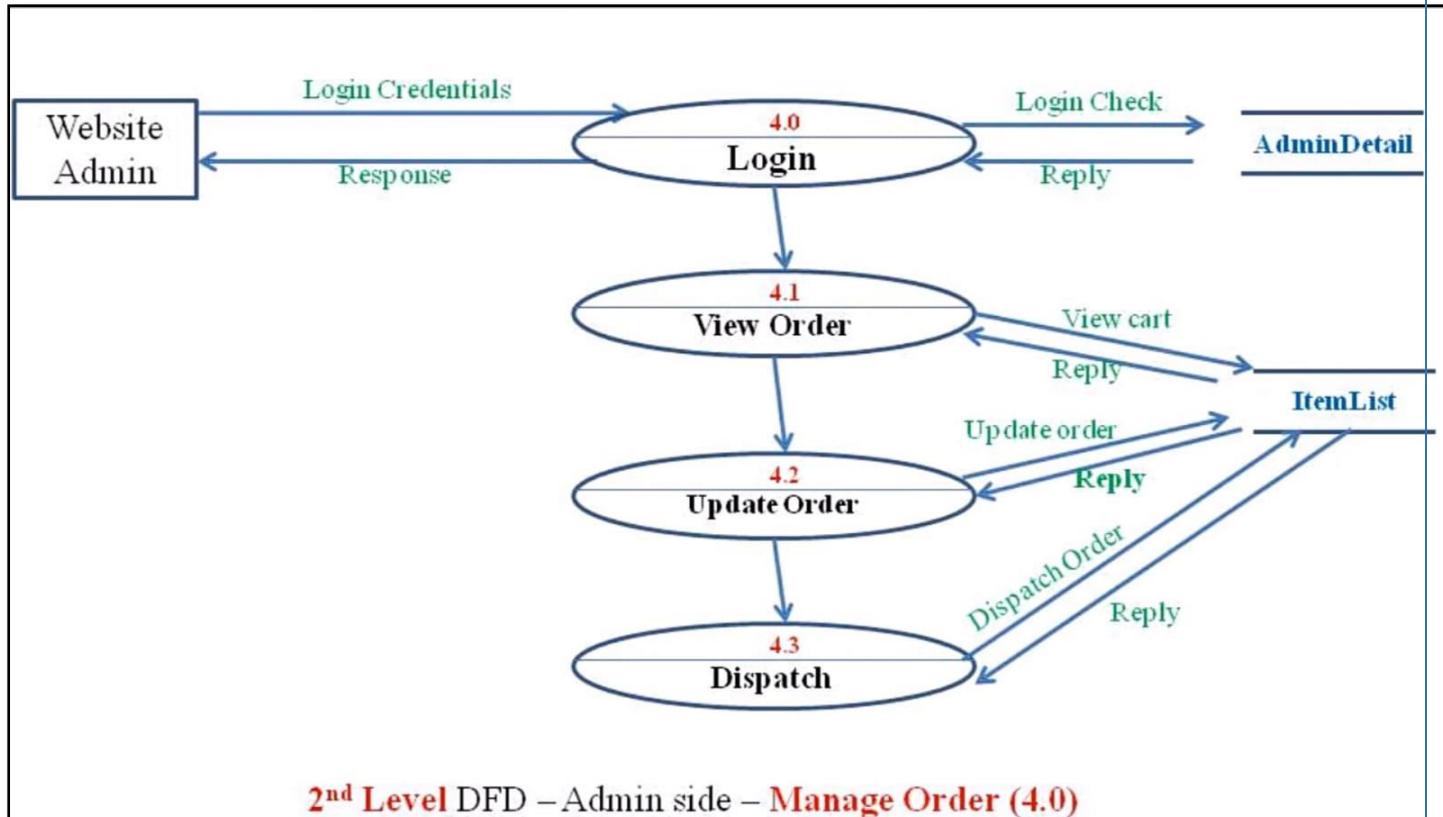


## 1st Level Admin Side DFD

The Admin side DFD describe the functionality of Admin, Admin is a owner of the website. Admin can first add category of item and then add items by category wise. and admin can manage order and payment detail.

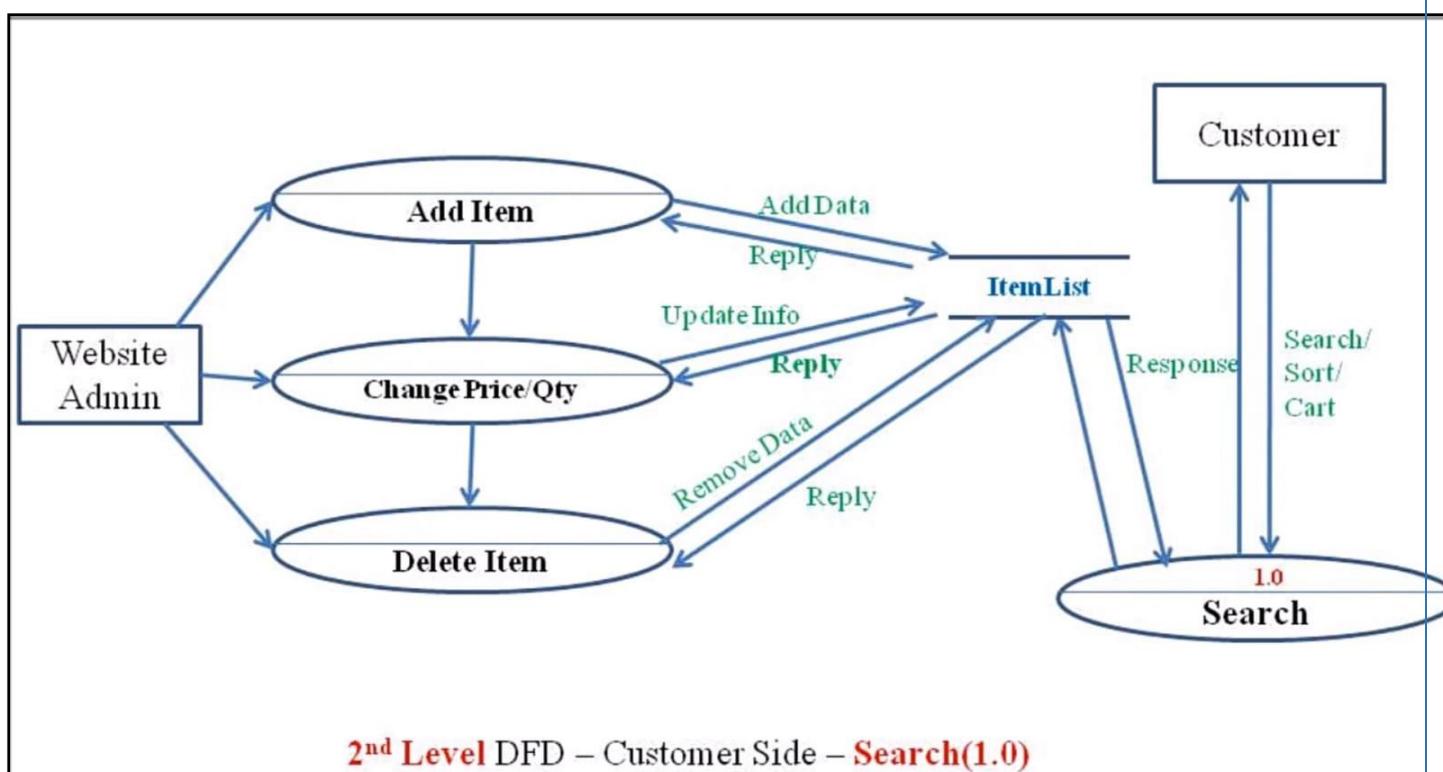
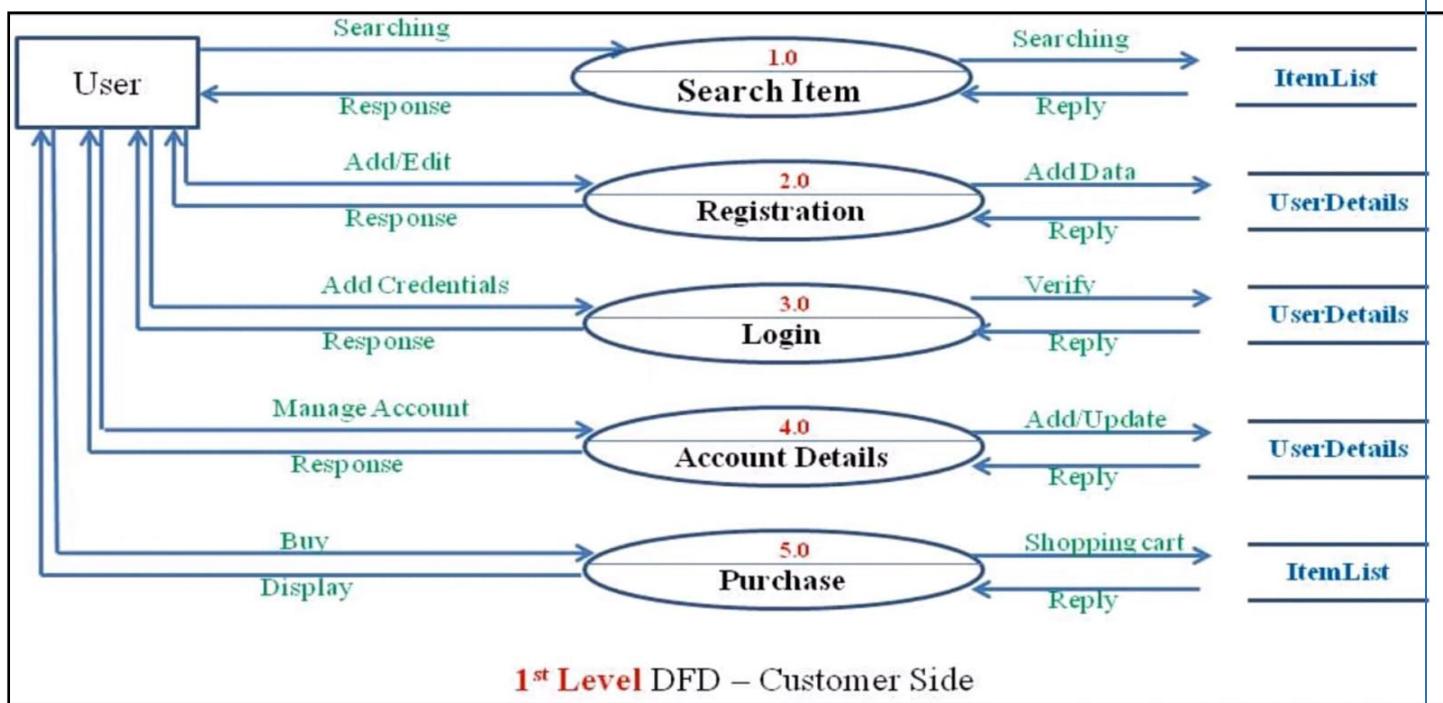


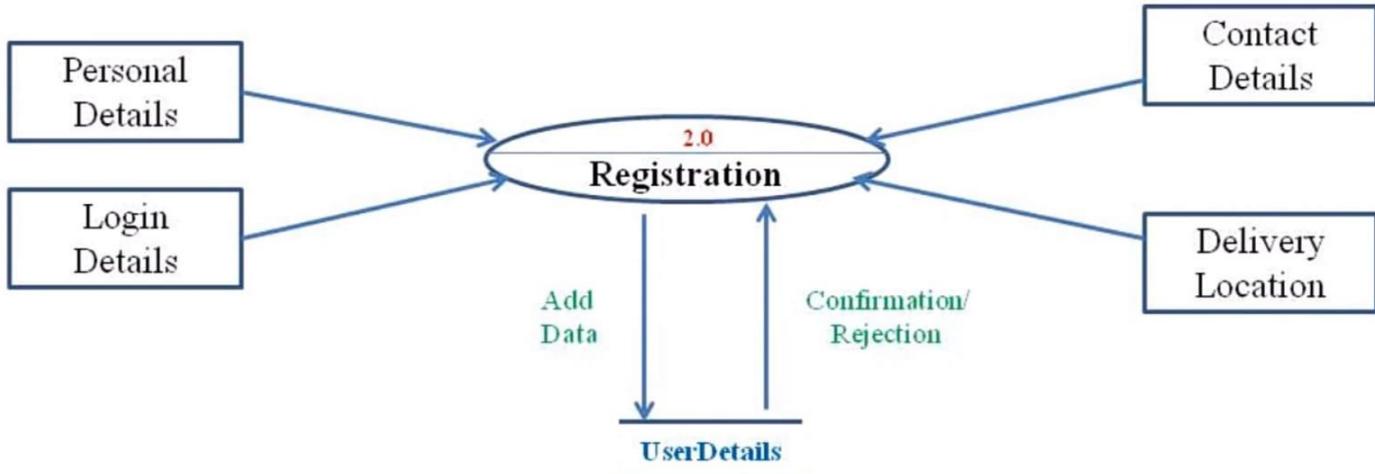
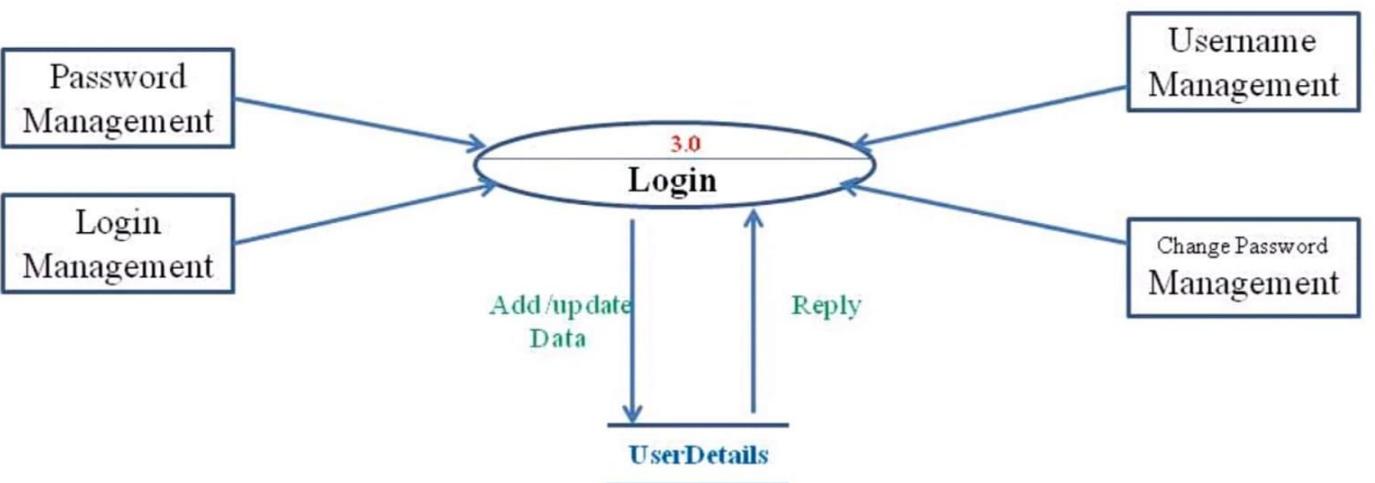


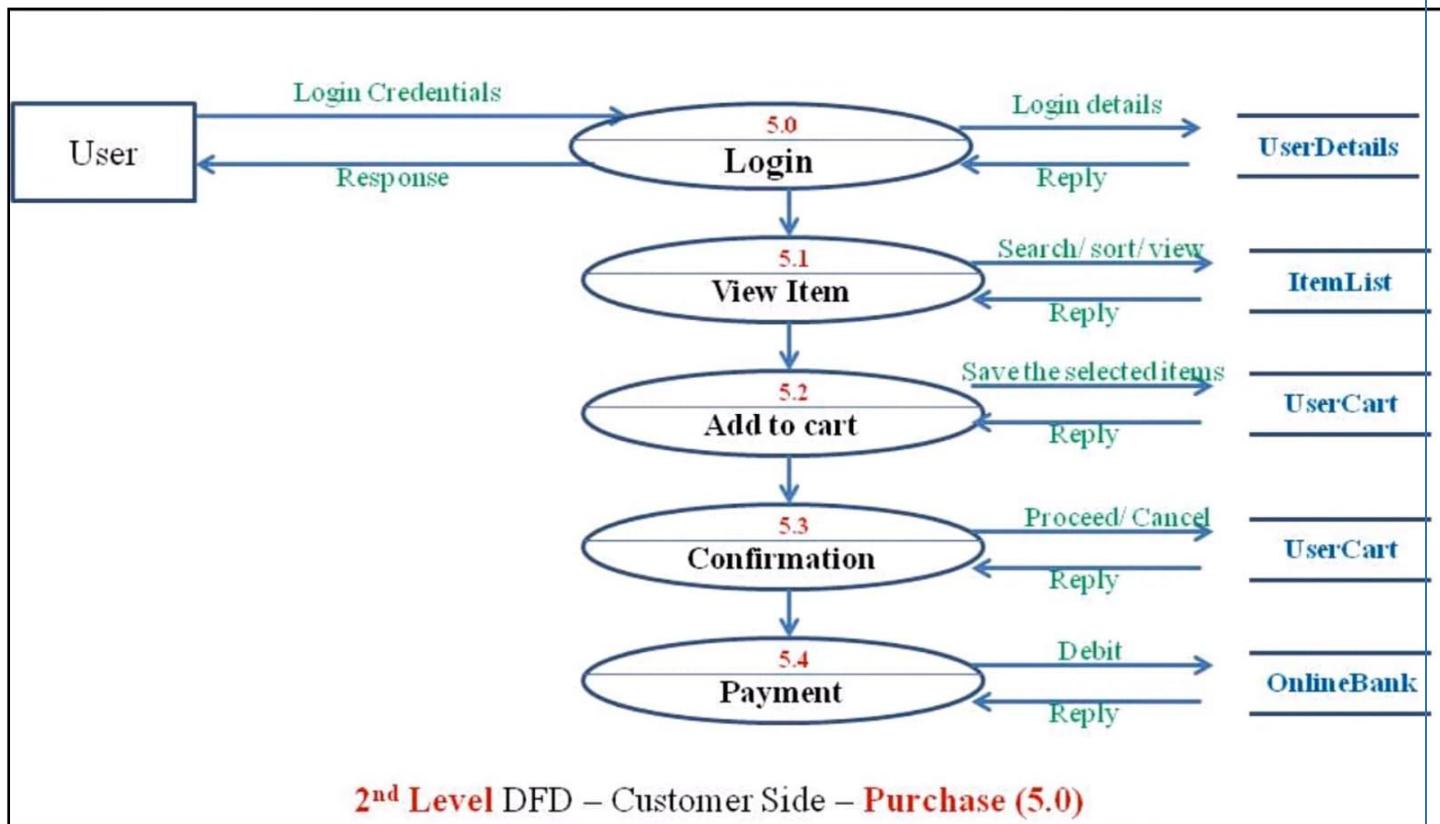
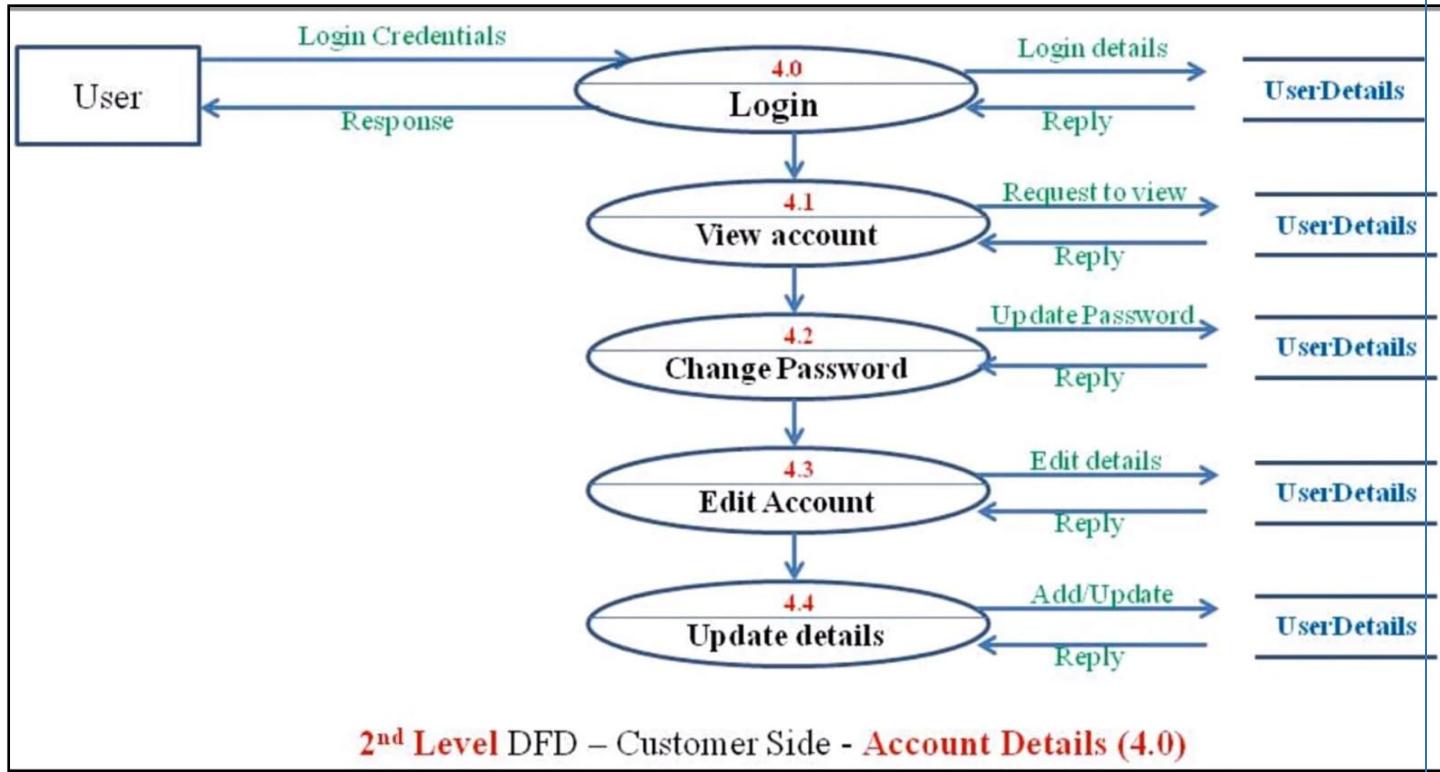


### 1st level – User side Data flow Diagram

The user is all people who operate or visit our website. User is a customer of a website. User can first select product for buy, user must have to register in our system for purchase any item from our website. after register he can login to site and buy item by making online payment through any bank debit card or credit card.

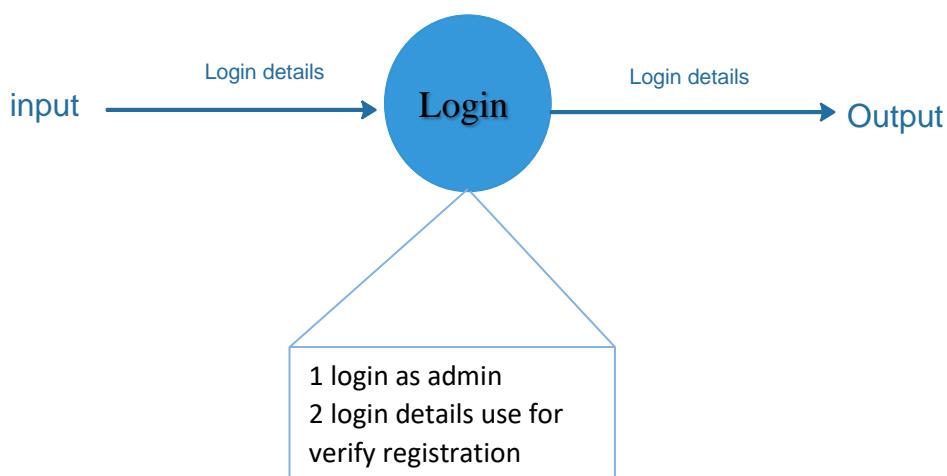


2<sup>nd</sup> Level DFD – Customer Side – Registration(2.0)2<sup>nd</sup> Level DFD – Customer Side – Login (3.0)

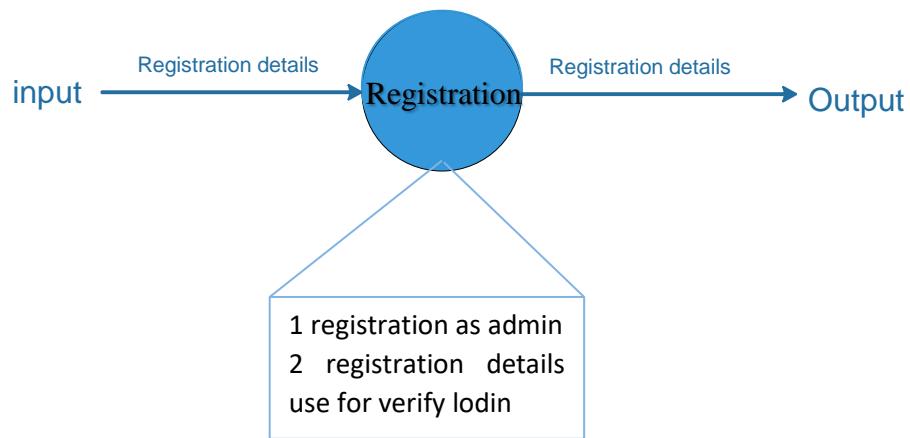


## 5.2 process Specification

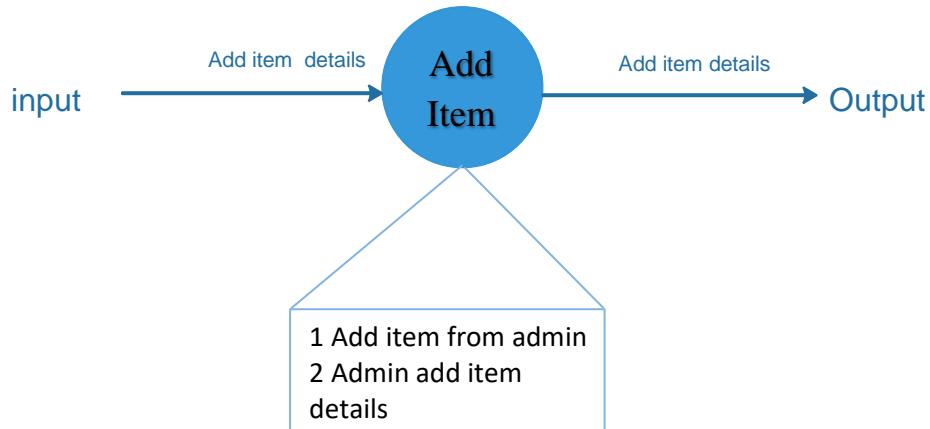
### ❖ Login Process(Admin):

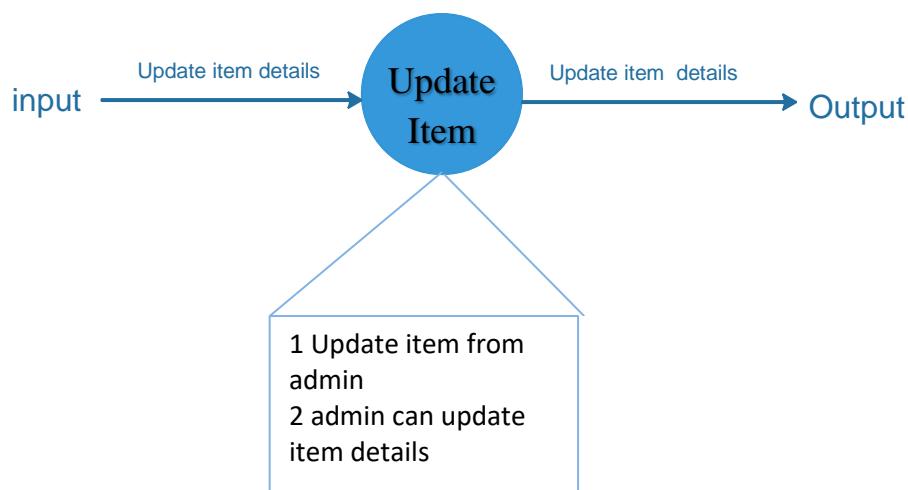
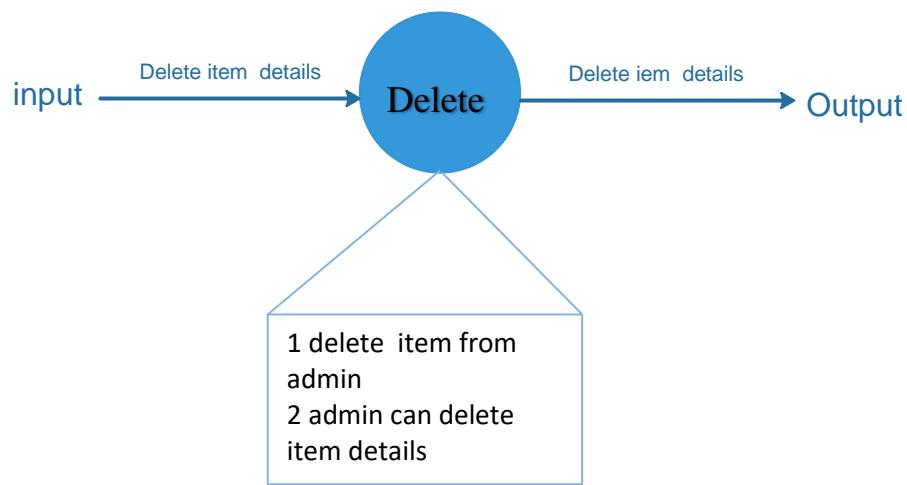
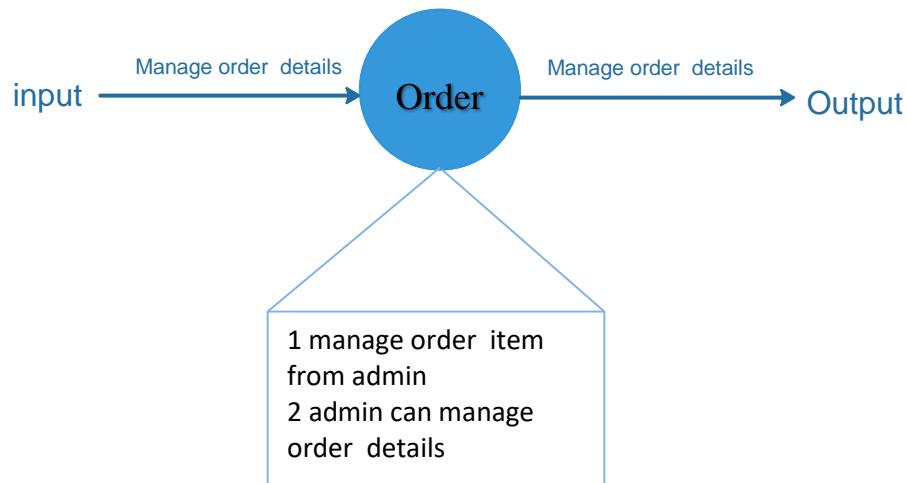


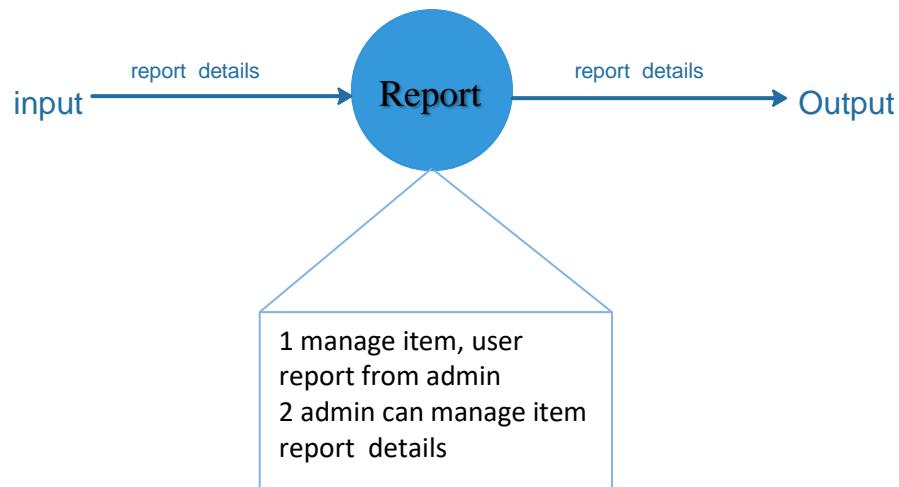
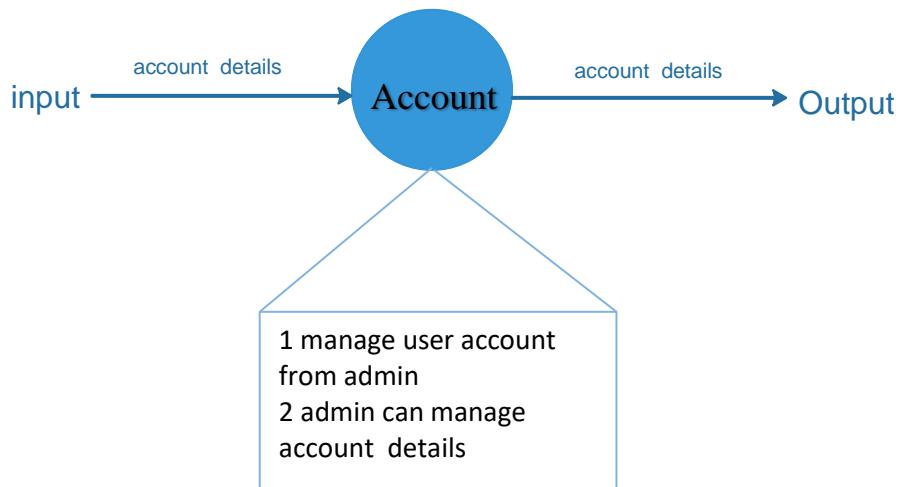
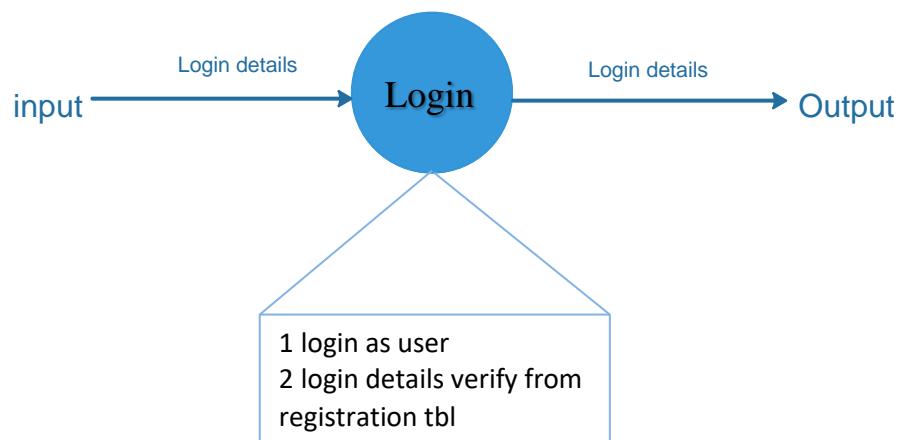
### ❖ Registration Process(Admin):

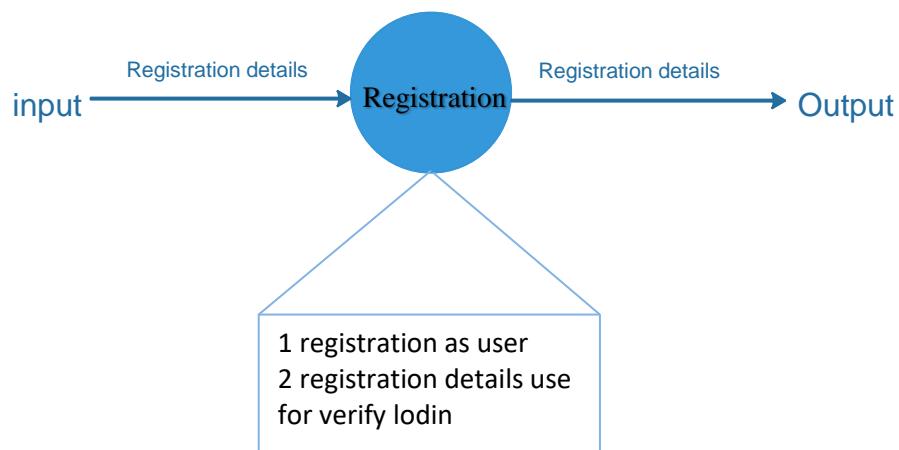
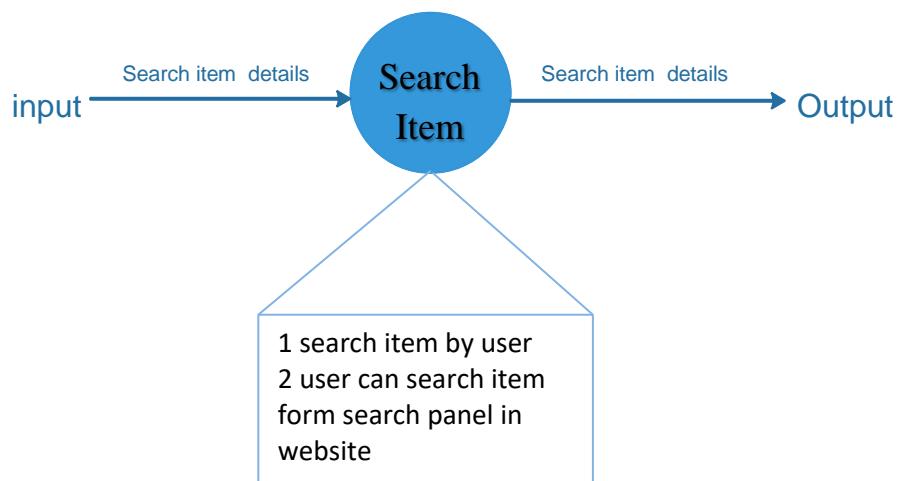
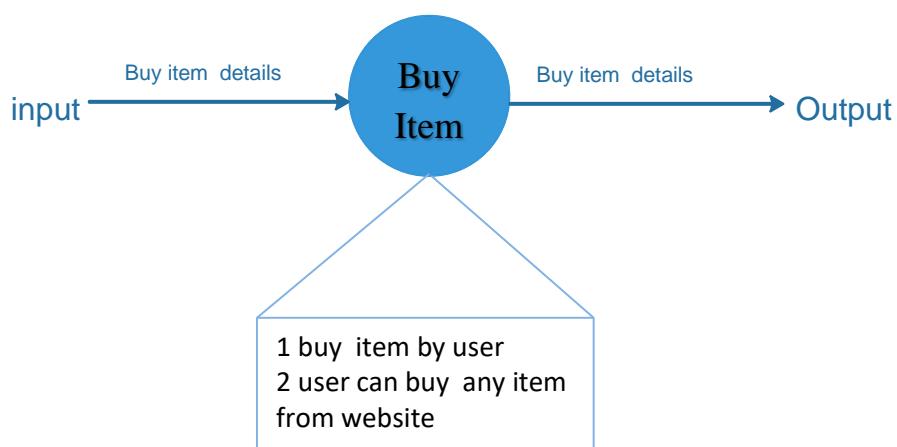


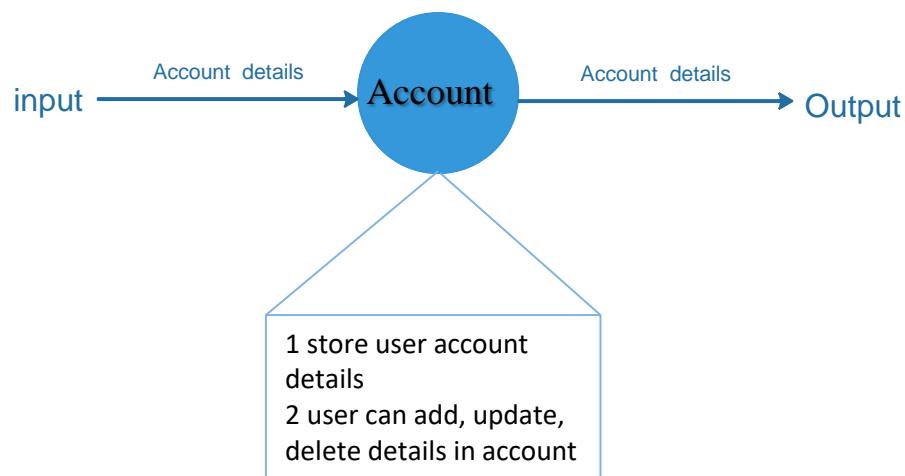
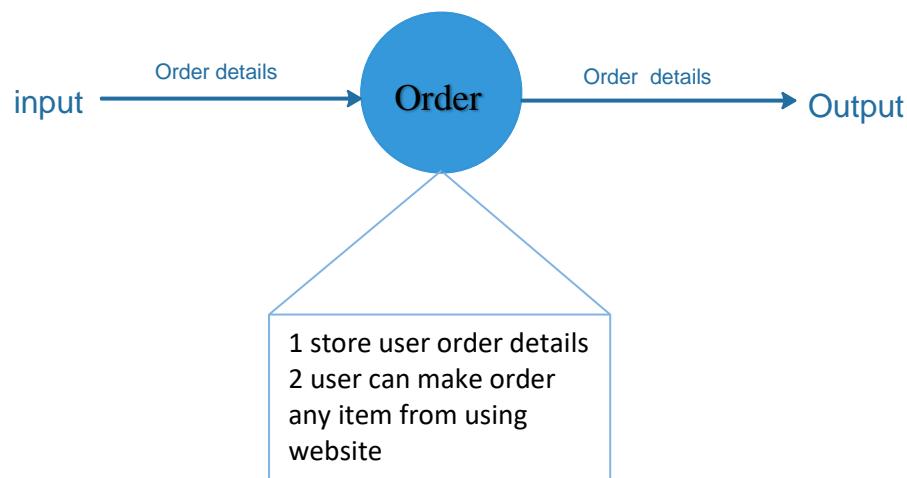
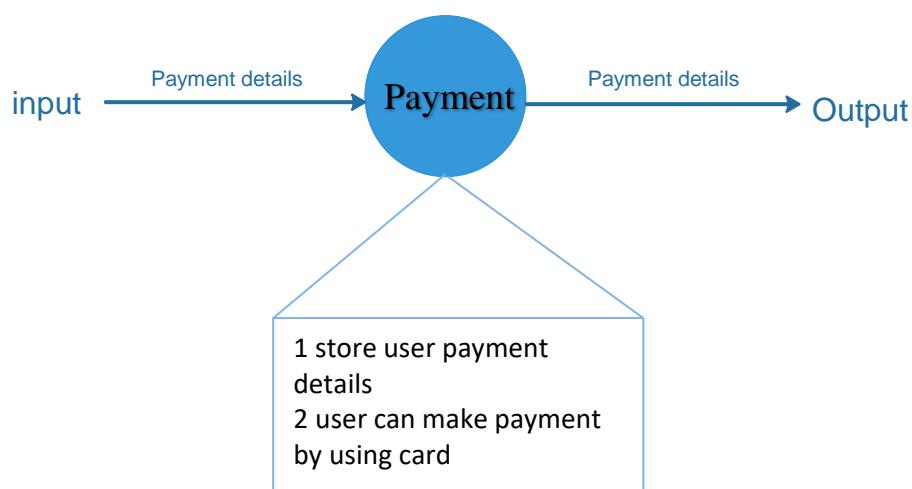
### ❖ Add item (Admin):



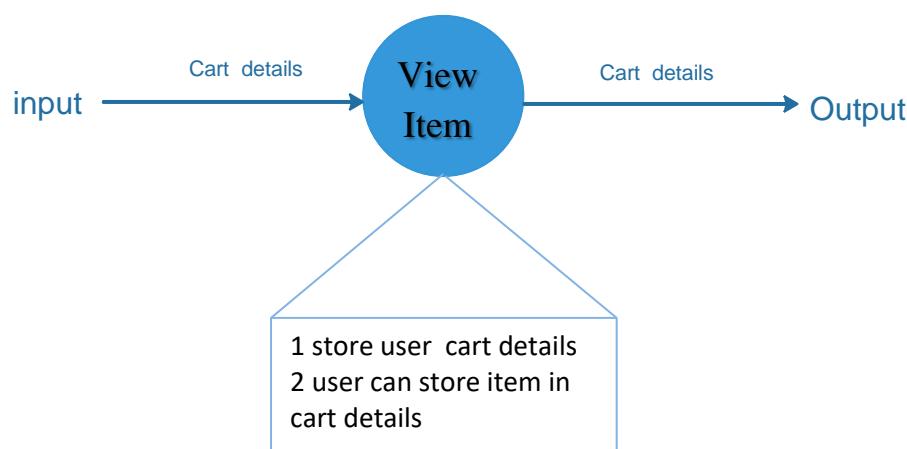
**❖ Update item (Admin):****❖ Delete item (Admin):****❖ Manage Order Process(Admin):**

**❖ Manage Report Process(Admin):****❖ Manage Account (Admin):****❖ Login Process (User):**

**❖ Registration Process (User):****❖ Search item (User):****❖ Buy item (User):**

**❖ Account details (User):****❖ Order process (User):****❖ Payment Process(User):**

❖ **View Item (User):**



### 5.3 Data Dictionary

- **Admin login**

<b>Name</b>	<b>tbl_admin_login</b>
<b>Alias</b>	Null
<b>Supplement Information</b>	admin Email + password
<b>Where to use/How to use</b>	Admin login(input/output) Admin(input/output)

- **Registration(user)**

<b>Name</b>	<b>tbl_registration</b>
<b>Alias</b>	Null
<b>Supplement Information</b>	username + email + password
<b>Where to use/How to use</b>	Registration(input/output) User/Visitor(input) Admin(input/output)

- **User login**

<b>Name</b>	<b>tbl_user_login</b>
<b>Alias</b>	Null
<b>Supplement Information</b>	User Email + password
<b>Where to use/How to use</b>	User login(input/output) Admin (input/output)

- **Forgot password**

<b>Name</b>	<b>tbl_forgotpass</b>
<b>Alias</b>	Null
<b>Supplement Information</b>	Email+password
<b>Where to use/How to use</b>	Send otp to registration email and reset your password

- **Compare product**

<b>Name</b>	<b>tbl_COMPAREPRODUCT</b>
<b>Alias</b>	Null
<b>Supplement Information</b>	Productinfo+price+description+rating
<b>Where to use/How to use</b>	User can send two product add to cart and Compare their details

- **Buy product**

<b>Name</b>	<b>tbl_buyproduct</b>
<b>Alias</b>	Null
<b>Supplement Information</b>	Category+productname+sku+price+discount+description +fulldescription+tags+images+color+size+stock+payment
<b>Where to use/How to use</b>	Buy Category(input/output) Admin(input/output)

- Add Category(admin)

<b>Name</b>	<b>tbl_addcatagory</b>
<b>Alias</b>	Null
<b>Supplement Information</b>	Category+productname+sku+price+discount+description +fulldescription+tags+images+color+size+stock
<b>Where to use/How to use</b>	Add Category(input/output) Admin(input/output)

- Wishlist

<b>Name</b>	<b>tbl_wishlist</b>
<b>Alias</b>	Null
<b>Supplement Information</b>	Image+productname+unitprice+addtocart+action
<b>Where to use/How to use</b>	wishlist(input/output) User(input/output)

- Payment

<b>Name</b>	<b>tbl_payment</b>
<b>Alias</b>	Null
<b>Supplement Information</b>	Name+value+cardnumber+date+cvv
<b>Where to use/How to use</b>	Transaction(input/output) Admin(output)

## 5.4 Entity Relationship Diagram

➤ LOGIN

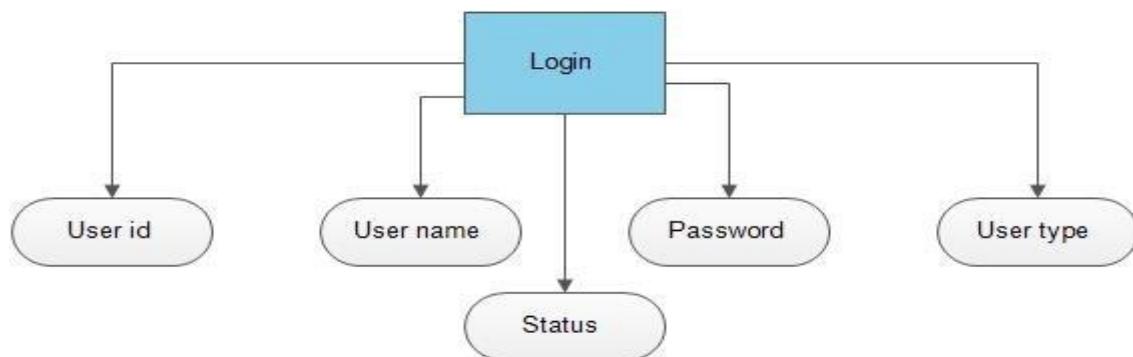


Fig 12: Login

## ➤ USER DETAILS

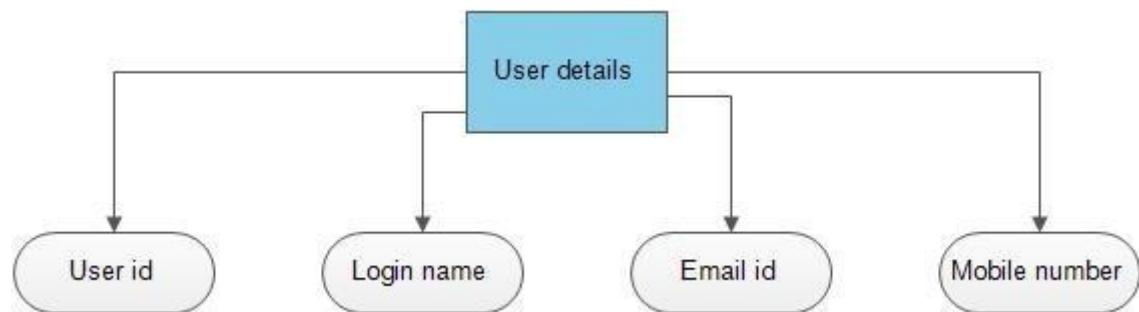


Fig 13: User Details

## ➤ PRODUCT DETAILS

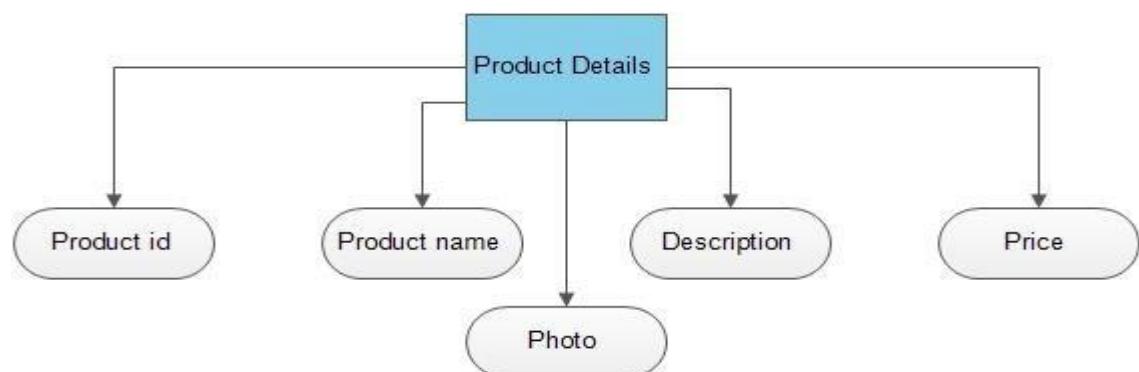


Fig 14: Product Details

## ➤ PRODUCT ORDERS

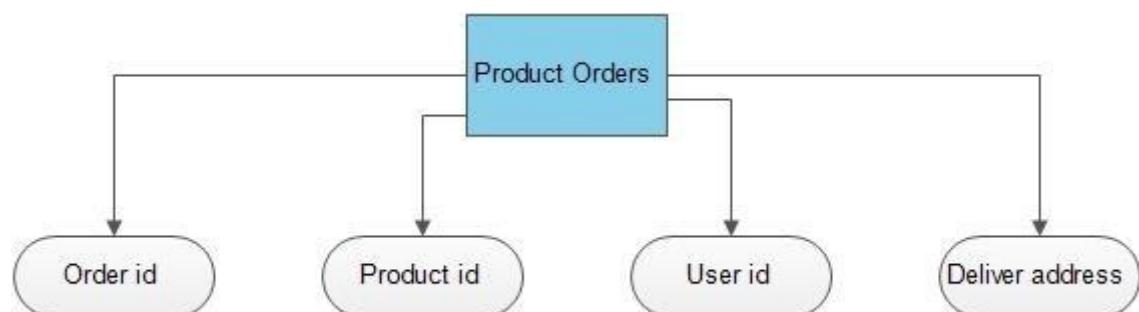


Fig 15: Product Orders

## ➤ COMPLETE DIAGRAM

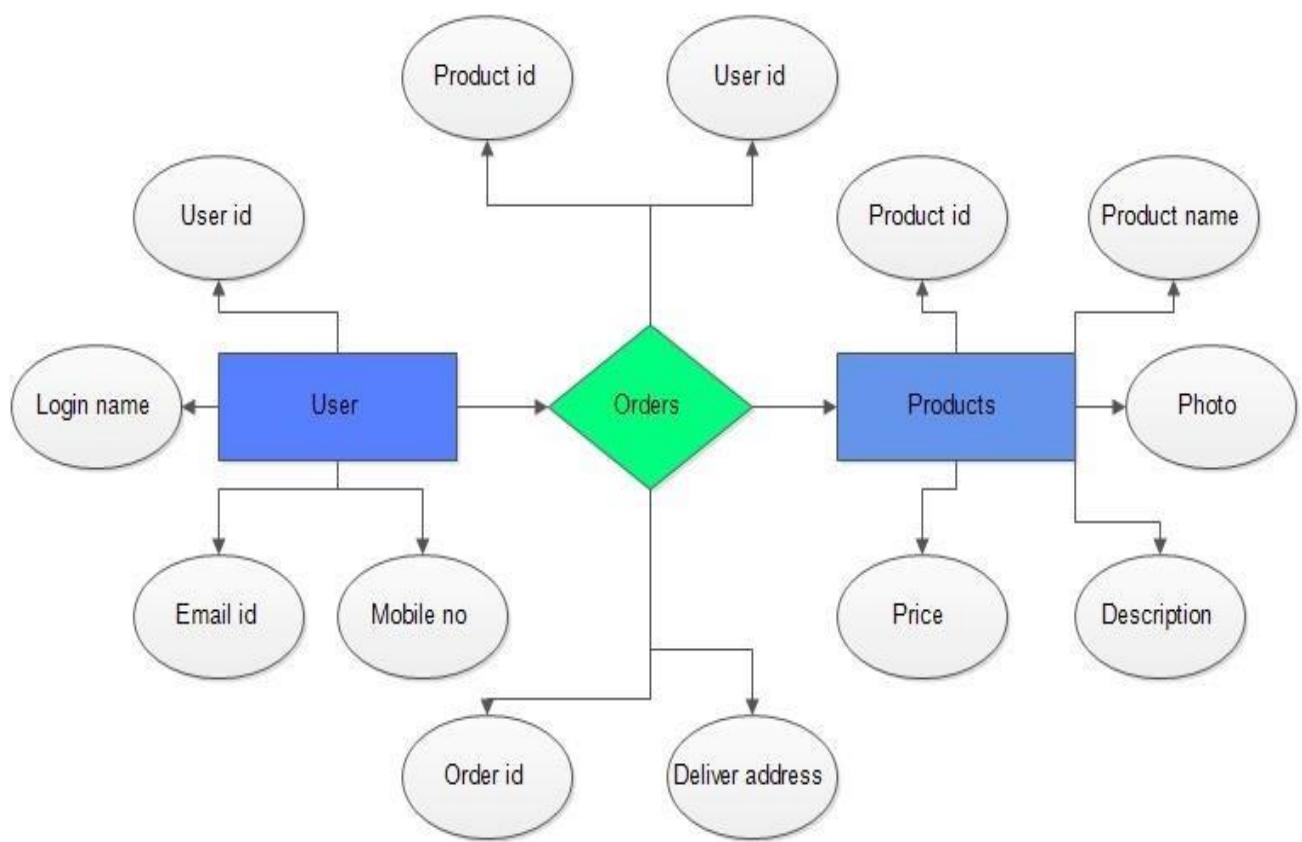


Fig 16: Complete Diagram

## CHAPTER 6

SYSTEM DESIGN

System design is the solution for the creation of a new system.

This phase focuses on the detailed implementation of the feasible system. It emphasis on translating design specifications to performance specification. System design has two phases of development

- Logical design
- Physical design

During logical design phase the analyst describes inputs (sources), output s(destinations), databases (data stores) and procedures (data flows) all in a format that meets the user requirements. The analyst also specifies the needs of the user at a level that virtually determines the information flow in and out of the system and the data resources. Here the logical design is done through data flow diagrams and database design. The physical design is followed by physical design or coding. Physical design produces the working system by defining the design specifications, which specify

exactly what the candidate system must do. The programmers write the necessary programs that accept input from the user, perform necessary processing on accepted data and produce the required report on a hard copy or display it on the screen.

## **6.1 Database Design**

Databases are the storehouses of data used in the software systems. The data is stored in tables inside the database. Several tables are created for the manipulation of the data for the system. Two essential settings for a database are

- Primary Key** - the field that is unique for all the record occurrences.
- Foreign Key** -the field used to set relation between tables.

Normalization is a technique to avoid redundancy in the tables.

### **TABLES:**

1. Login
2. Product
3. Order
4. User
5. User session

## ❖ LOGIN :

	_id	first_name	last_name	username	email	st
1	6232fef81cd7bc3324740a53	null	null	"Parth khunt"	"parth.s	
2	623305b7eaddef1090738043	null	null	"admin"	"admin@g	
3	623325b14d7e2a1900ae504d	null	null	"shivani"	"shivani	
4	623552ecfec33e4ca40c4425	null	null	"parth"	"khunt85	
5	6235db9e16a22b28a0cd10e6	null	null	"payal chauhan"	"pchauha	
6	6236ed236e8b772f20ffe53f	null	null	"shivani"	"shivani"	

	email	birth_date	facebookId	password	image	Mi
1	"parth.semicolon1@gmail.com"	null	null	"\$2a\$10\$3ZvclEYvanSlo3Bv9UnYz.5	null	
2	"admin@gmail.com"	null	null	"\$2a\$10\$b3g/Jq3Q3/L8Fn4b4G/0p.t	null	
3	"shivanioghara59@gmail.com"	null	null	"\$2a\$10\$1SpoxuJHiGtOzY/.s57BIu0	null	
4	"khunt8533@gmail.com"	null	null	"\$2a\$10\$c51fCxszNySdvilE.QX0keq	null	
5	"pchauhan7621@gmail.com"	null	null	null	"https:/	
6	"shivanioghara@gmail.com"	null	null	"\$2a\$10\$a4TD2jj..WVFzNDq/CUVAuL	null	

## ❖ PRODUCT :

**products**

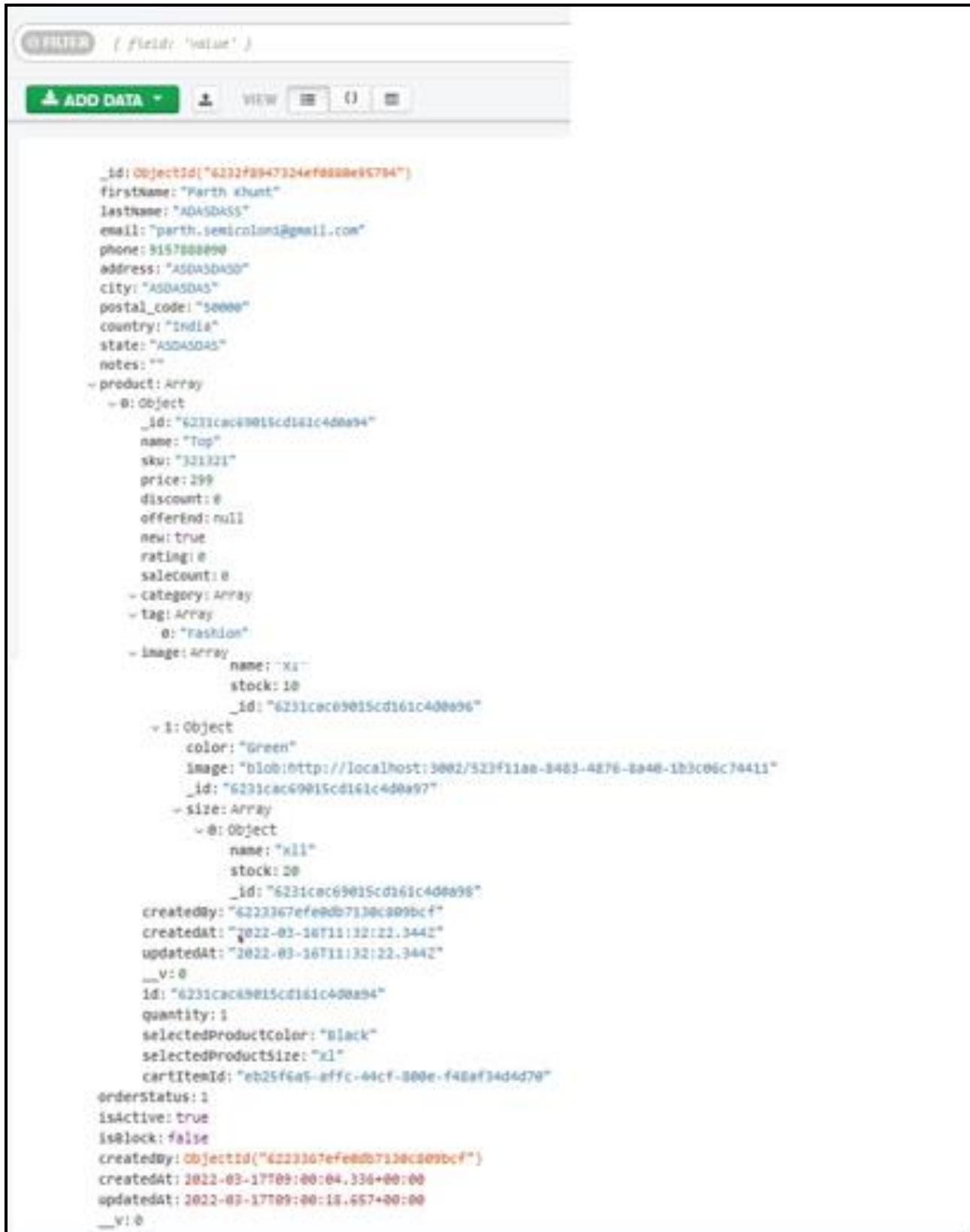
	_id ObjectId	name String	description String	price Int32	rating Int32	category
1	621f96e5053d68568840deb2	"parth"	"sxsacd"	1111	0	"123"
2	6220a9828cdf70b4c9c1540	"fashion"	"testing"	100	No field	"Laptop"
3	62234d42fea8e94aec3161f2	"Testing Product"	No field	100	0	[] 2 elem
4	6224959bc1efae3828045452	"Black Watch"	No field	100	0	[] 2 elem
5	622495cec1efae382804545e	"shruti"	No field	1000	0	[] 2 elem
6	6225be5ed29bc80b0c1c898f	"Stylish Shirt"	No field	100	0	[] 2 elem
7	6225be63d29bc80b0c1c899b	"Stylish Shirt2"	No field	100	0	[] 2 elem
8	6225be68d29bc80b0c1c89a8	"Stylish Shirt2454"	No field	100	0	[] 2 elem
9	6225be6dd29bc80b0c1c89b4	"Stylisfgdfh shirt2454"	No field	100	0	[] 2 elem
10	6225be6fd29bc80b0c1c89c0	"Stylisfsdasddfhs shirt2454"	No field	100	0	[] 2 elem
11	6225be73d29bc80b0c1c89cd	"Stylisfsdasddfhs Sdsfsdfhirt245	No field	100	0	[] 2 elem

## ❖ USER SESSION :

**user\_sessions**

	_id ObjectId	isActive Boolean	createdBy ObjectId	refresh_token String	createdAt Date	updatedAt
1	621721de90c4e00ad02ca940	true	621721de90c4e00ad02ca93e	"eyJhbGciOiJIUzI1NiIsInR5CCl6Ik	2022-02-24T06:12:46.651+00:00	2022-02-2
2	621721e490c4e00ad02ca943	true	621721de90c4e00ad02ca93e	"eyJhbGciOiJIUzI1NiIsInR5CCl6Ik	2022-02-24T06:12:52.317+00:00	2022-02-2
3	6217220790c4e00ad02ca946	true	621721de90c4e00ad02ca93e	"eyJhbGciOiJIUzI1NiIsInR5CCl6Ik	2022-02-24T06:13:27.388+00:00	2022-02-2
4	6217463a790b62315cd4ba76	true	621721de90c4e00ad02ca93e	"eyJhbGciOiJIUzI1NiIsInR5CCl6Ik	2022-02-24T08:47:54.483+00:00	2022-02-2
5	6217466d790b62315cd4ba79	true	621721de90c4e00ad02ca93e	"eyJhbGciOiJIUzI1NiIsInR5CCl6Ik	2022-02-24T08:48:45.840+00:00	2022-02-2
6	621746e3790b62315cd4ba7e	true	621721de90c4e00ad02ca93e	"eyJhbGciOiJIUzI1NiIsInR5CCl6Ik	2022-02-24T08:50:43.660+00:00	2022-02-2
7	6217470e790b62315cd4ba81	true	621721de90c4e00ad02ca93e	"eyJhbGciOiJIUzI1NiIsInR5CCl6Ik	2022-02-24T08:51:26.607+00:00	2022-02-2
8	62174794790b62315cd4ba84	true	621721de90c4e00ad02ca93e	"eyJhbGciOiJIUzI1NiIsInR5CCl6Ik	2022-02-24T08:53:40.604+00:00	2022-02-2
9	621747a7790b62315cd4ba87	true	621721de90c4e00ad02ca93e	"eyJhbGciOiJIUzI1NiIsInR5CCl6Ik	2022-02-24T08:53:59.891+00:00	2022-02-2
10	62174bbb790b62315cd4ba88	true	621721de90c4e00ad02ca93e	"eyJhbGciOiJIUzI1NiIsInR5CCl6Ik	2022-02-24T09:11:23.107+00:00	2022-02-2
11	62174bdc790b62315cd4ba8d	true	621721de90c4e00ad02ca93e	"eyJhbGciOiJIUzI1NiIsInR5CCl6Ik	2022-02-24T09:11:56.728+00:00	2022-02-2

## ❖ ORDER :



The screenshot shows a MongoDB interface with a document details view. At the top, there's a search bar with the placeholder '{ field: 'value' }'. Below it is a toolbar with buttons for 'ADD DATA', 'VIEW', and other database operations.

The document itself is a JSON object representing an order:

```
_id: ObjectId("6232f8947324ef0888e95784")
firstName: "Parth khunt"
lastName: "ADASDASS"
email: "parth.semicolon@gmail.com"
phone: 9157888899
address: "ASDASDASD"
city: "ASDASDAS"
postal_code: "500000"
country: "India"
state: "ASDASDAS"
notes: ""
product: Array
  - 0: Object
    _id: "6231cac69015cd161c4d8a94"
    name: "Top"
    sku: "321321"
    price: 299
    discount: 0
    offerEnd: null
    new: true
    rating: 0
    saleCount: 0
  - category: Array
  - tag: Array
    0: "fashion"
  - image: Array
    name: "x1"
    stock: 10
    _id: "6231cac69015cd161c4d8a96"
  - 1: Object
    color: "Green"
    image: "blob:http://localhost:3002/523f1aa-8483-4276-8a48-1b3c06c74411"
    _id: "6231cac69015cd161c4d8a97"
  - size: Array
    - 0: Object
      name: "xLl"
      stock: 20
      _id: "6231cac69015cd161c4d8a98"
createdBy: "6223367efe9db7138c809bcf"
createdAt: "2022-03-16T11:32:22.344Z"
updatedAt: "2022-03-16T11:32:22.344Z"
__v: 0
id: "6231cac69015cd161c4d8a94"
quantity: 1
selectedProductColor: "Black"
selectedProductSize: "xLl"
cartItemId: "eb25f6a5-affc-4acf-800e-f48af34d4d79"
orderStatus: 1
isActive: true
isBlock: false
createdBy: ObjectId("6223367efe9db7138c809bcf")
createdAt: 2022-03-17T09:00:04.336+00:00
updatedAt: 2022-03-17T09:00:18.657+00:00
__v: 0
```

## USER :

The screenshot shows a MongoDB interface with two document cards displayed. At the top, there is a search bar containing the query '{ field: 'value' }'. Below the search bar are several buttons: 'ADD DATA' (green), 'VIEW' (grey), and three other small icons. The first document card contains the following data:

```
_id: ObjectId("621f96e5053d68568840deb2")
name: "parth"
description: "sxsacd"
price: 1111
rating: 0
category: "123"
Stock: 1
numOfReviews: 0
images: Array
reviews: Array
createdAt: 2022-03-02T16:10:13.677+00:00
__v: 0
```

The second document card contains the following data:

```
_id: ObjectId("6220a9828cdfe70b4c9c1540")
ratings: 5
Stock: 9
numOfReviews: 1
name: "fashion"
price: 100
description: "testing"
category: "Laptop"
images: Array
user: ObjectId("62208a819869cc9aafae16f3")
reviews: Array
```

## **6.2 Directory Structure**

<b>User</b>	
About.js	Myaccount.js
Cart.js	Myorder.js
Card.js	Notfound.js
Cardutils.js	Wishlist.js
Checkout.js	Styles.js
Compare.js	ShopGridFilter.js
Contact.js	ShopGridFullWidth.js
Loginregister.js	ShopGridTwoColumn.js

<b>Admin</b>	
DashboardPage.js	User_Edit.jsx
Contact_Edit.jsx	User_Favorite.jsx
Contact_List.jsx	User_Like.jsx
Post_Details.jsx	User_List.jsx
Store_Edit.jsx	User_PersonalInfo.jsx
Store_List.jsx	User_Setting.jsx
User_Business.jsx	App.jsx
User_Details.jsx	Basepage.jsx
User_Download.jsx	Routes.jsx

## **6.3 Input Design**

Input design is the link that ties the information system into the world of its users. The input design involves determining the inputs, validating the data, minimizing the data entry and provides a multi-user facility. Inaccurate inputs are the most common cause of errors in data processing. Errors entered by the data entry operators can be controlled by input design.

The user-originated inputs are converted to a computer based format in the input design. Input data are collected and organized into groups of similar data. Once identified, the appropriate input media are selected for processing. All the input data are validated and if any data violates any conditions, the user is warned by a message.

If the data satisfies all the conditions, it is transferred to the appropriate tables in the database. In this project the student details are to be entered at the time of registration. A page is designed for this purpose which is user friendly and easy to use. The design is done such that users get appropriate messages when exceptions occur.

❖ Login page :

The screenshot shows the login page for the website 'Grubgrams'. At the top, there is a navigation bar with links for Women, Men, Products, Pages, About Us, Blog, and Contact Us. To the right of the navigation bar are icons for search, user profile, notifications (with 1 notification), and social media links for Instagram, Facebook, and Twitter. Below the navigation bar, the word 'Grubgrams' is displayed in a bold, black font. In the center, there is a large rectangular form for logging in. At the top of the form, there are two buttons: 'Login' and 'Register' (both in blue). The form contains fields for 'Email' and 'Password', both enclosed in white input boxes. Below the password field is a red asterisk indicating a required field. There is also a 'Remember me' checkbox and a 'Forgot Password?' link. At the bottom of the form are three buttons: 'GOOGLE' with a 'G' icon, 'FACEBOOK' with a 'f' icon, and a general 'LOGIN' button with a circular arrow icon. In the bottom right corner of the page, there is a small purple circular icon with a white upward-pointing arrow.

❖ Registration page :

The registration page for Grubgrams features a header with navigation links for Women, Men, Products, Pages, About Us, Blog, and Contact Us. It includes a search bar and social media icons for Instagram, Facebook, Twitter, and LinkedIn. The main content area is titled "Login | Register". It contains three input fields: "Username", "Email", and "Password". Below these are two social login buttons: "GOOGLE" and "FACEBOOK". A "REGISTER" button with a circular arrow icon is at the bottom. A purple circular icon with an upward arrow is located in the bottom right corner.

❖ All product page:

The product page for Grubgrams has a header with the same navigation links as the registration page. It includes a search bar and social media icons. On the left, there is a "Search" section with a "Search here..." input field and a magnifying glass icon. Below it is a "Categories" section with checkboxes for All Categories, Wallet, Belt, Watch, Sandal, Casual Shoes, Sports Shoes, Ethnic Bottomwear, and Blouses. A dropdown menu for sorting is open, showing "Default" and "Price - Low to High" (which is highlighted). The main content area displays three product items: "StylesLatest Men Wallets" (a red leather wallet with "Genuine Leather" and "50" embossed on it), "Fancy Modern Men Belts" (a black belt with a gold-toned buckle), and "rendy Leather Belt In Lowest Price" (a brown leather belt with a gold-toned buckle). Each item has a price range, a small image, and discount tags (-10%, -5%, New). A purple circular icon with an upward arrow is in the bottom right corner.

❖ Search product:

The screenshot shows a search results page for the query "wat". The search bar contains "wat" and the dropdown shows "Default". Below the search bar, there's a "Categories" sidebar with checkboxes for All Categories, Wallet, Belt, Watch, Sandal, Casual Shoes, Sports Shoes, Ethnic Bottomwear, Blouses, and Skirt. The main content area displays two products: a "rolex watch" (product ID s-36673699) and a "digital Watches" (product ID s-80476155). Both products have discount tags: -10% and New for the rolex watch, and -50% and New for the digital watch.

❖ Compare product:

The screenshot shows a comparison section for four products. On the left, there's a "Product Info" column. The first row compares a men's jacket (Sadas, product ID s-9906141) and a men's shirt (Asdasd, product ID s-78361619), both with "Select Option" buttons. The second row compares a saree (Gorgeous Satin Women's Sarees, fabric name Satin patta, product ID s-1234567890) and a women's blouse (FLOWER GREY, product ID s-1234567890), also with "Select Option" buttons. The third row compares their prices: ₹606500.00, ₹60650.00; ₹5222.00, ₹2611.00; ₹1600.00, ₹1350.00; and ₹257.00, ₹231.00. The fourth row compares their descriptions: sadas, dfjksbhfhb, Name : Gorgeous Satin Women's Sarees Fabric:, and FLOWER GREY.

❖ Cart items:

IMAGE	PRODUCT NAME	UNIT PRICE	QTY	SUBTOTAL	ACTION
	avanika women dupatta Color: pink Size: Free size	₹450.00 ₹405.00	- 1 +	₹405.00	X
	rendy Leather Belt In Lowest Price Color: black Size: 20	₹500.00 ₹490.00	- 1 +	₹490.00	X
	sunglass Color: black Size: l	₹500.00 ₹425.00	- 1 +	₹425.00	X

CONTINUE SHOPPING      CLEAR SHOPPING CART

❖ Place Order page :

Billing Details		Your order	
First Name	Last Name	Product	Total
shivani	boghara	chitra fashion silk saree X 1	₹332.50
Country		Shipping	Free shipping
India		Total	₹332.50
Street Address			
127, rajani complex, siamda gam			
Town / City			
surat			
State	Postcode / ZIP		
gujarat	396606		
Phone	Email Address		

PAYMENT

❖ Payment :

## **6.4 OUTPUT DESIGN:**

Computer output is the most important and direct source of information to the user. Output design is a very important phase since the output needs to be in an efficient manner. Efficient and intelligible output design improves the system relationship with the user and helps in decision making. Allowing the user to view the sample screen is important because the user is the ultimate judge of the quality of output. The output module of this system is the selected notifications.

- ❖ Admin login:

### ❖ Dashboard:

The dashboard features a sidebar on the left with the following navigation items:

- Dashboard
- User
- Product
- Order
- Sign Out

The main area has a red header with the text "GrubGrams" and "Hey, lets make TODAY better then the last!!". Below the header is a white panel containing three cards:

- User: 15
- Product: 309
- Confirm Order: 69

### ❖ User:

The user management page shows a list of users with the following details:

NAME	LOGIN TYPE	EMAIL	JOIN DATE	STATUS	ACTIONS
Darshan	custom	Darshan@gmail.com	29-03-2022	Unblocked	
divy	custom	divykhanesha@gmail.com	29-03-2022	Unblocked	
shivani	custom	shivaniboghara@gmail.com	20-03-2022	Unblocked	
payal chauhan	google	pchauhan762@gmail.com	19-03-2022	Unblocked	
parth	custom	khunt8533@gmail.com	18-03-2022	Unblocked	
shivani	custom	shivaniboghara59@gmail.com	17-03-2022	Unblocked	

❖ Search product:

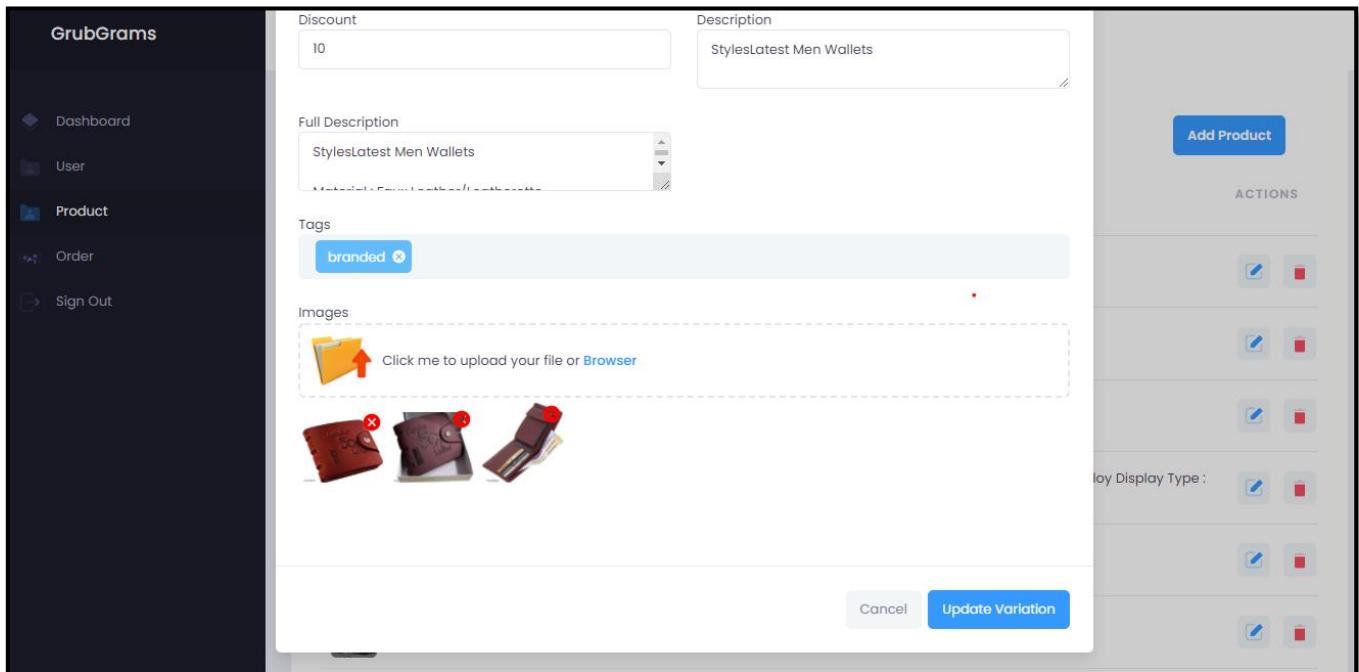
The screenshot shows the 'Products' section of the GrubGrams application. On the left is a dark sidebar with navigation links: Dashboard, User, Product (selected), Order, and Sign Out. The main area has a header 'Products' and a search bar containing 'fancy'. A blue button labeled 'Add Product' is in the top right. Below is a table with columns: STORE NAME, JOIN DATE, PRICE, RATING, DESCRIPTION, and ACTIONS. The table contains five rows of product data, each with a small thumbnail image.

STORE NAME	JOIN DATE	PRICE	RATING	DESCRIPTION	ACTIONS
Fancy Modern Men Belts	28-03-2022	500	0	Fancy Modern Men Belts	
Root Enterprise Level Up Fancy Sharara	28-03-2022	500	0	Root Enterprise Level Up Fancy Sharara	
Fancy Feminine Women Jeggings	28-03-2022	240	0	Fancy Feminine Women Jeggings	
Fancy Unique Women Palazzos	28-03-2022	200	0	Fancy Unique Women Palazzos	
Fancy Fashionista Women	27-03-				

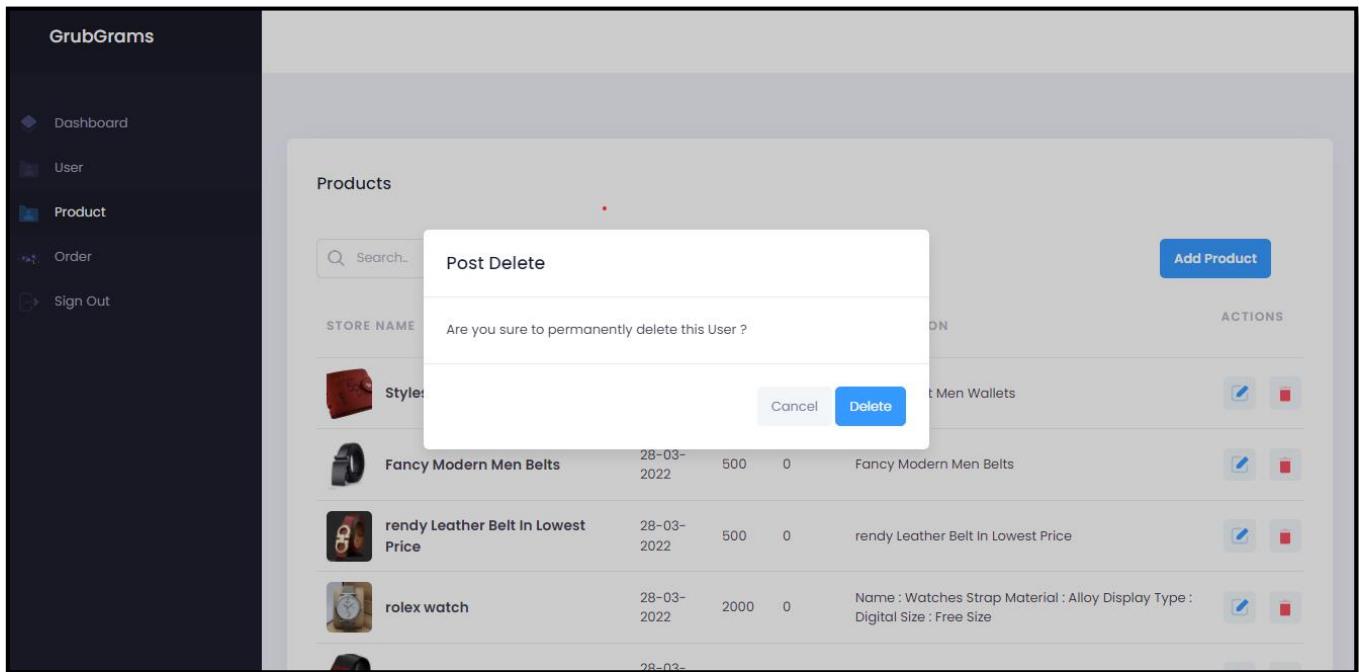
❖ Add product :

The screenshot shows the 'Add Post' form for adding a new product. The left sidebar is identical to the previous screenshot. The main form has a title 'Add Post' and several input fields: Category (dropdown menu 'Select Category Name'), Product Name (text input 'Product Name'), sku (text input 'sku'), Price (text input 'Product Price'), Discount (text input 'Discount'), Description (text input 'Description'), Full Description (text input 'Full Description'), Tags (text input 'Tags'), and Images (file upload field with placeholder 'Click me to upload your file or Browser'). A blue 'Add Product' button is located in the top right of the form area.

❖ Update product :



❖ Delete product :



❖ All product:

STORE NAME	JOIN DATE	PRICE	RATING	DESCRIPTION	ACTIONS
StylesLatest Men Wallets	28-03-2022	80	0	StylesLatest Men Wallets	
Fancy Modern Men Belts	28-03-2022	500	0	Fancy Modern Men Belts	
rendy Leather Belt In Lowest Price	28-03-2022	500	0	rendy Leather Belt In Lowest Price	
rolex watch	28-03-2022	2000	0	Name : Watches Strap Material : Alloy Display Type : Digital Size : Free Size	
digital Watches	28-03-2022	3020	0	Watches	
Latest Fabulous Men Sandals4	28-03-	3003	0	Latest Fabulous Men Sandals	

❖ All order:

NAME	EMAIL	PHONE	POSTAL_CODE	ACTION
Parth	parth.semicolon@gmail.com	9157877809	394101	Accepted
shivani	shivaniboghara59@gmail.com	4667764243	395006	Accepted
sadasd	admin@gamil.com	54653146534	vggh864556	Accepted
helvin	shivaniboghara59@gmail.com	9352552565	3965006	Accepted
shivani	shivaniboghara59@gmail.com	9328714965	395006	Accepted
shivani	shivaniboghara59@gmail.com	9328714965	395006	Accepted
shivani	shivaniboghara59@gmail.com	9328714965	395006	Accepted
codads	parth.semicolon@gmail.com	9157877809	394101	Accepted

❖ View orders:

The screenshot shows the 'Order Details' page of the GrubGrams application. On the left, there is a dark sidebar with the 'GrubGrams' logo and navigation links: Dashboard, User, Product, Order (which is selected), and Sign Out.

The main content area is titled 'Order Details'. It contains fields for Customer Name (Parth), Customer Email (parth.semicolon@gmail.com), Customer Phone (9157877809), Customer Address (G-302,shree hans laxriya), Customer city (surat), Customer state (gujarat), and Customer country (India).

Below these fields is a section titled 'Product Details' with a table:

#	NAME	PRICE	QUANTITY	DISCOUNT	SKU	SIZE	COLOR	STOCK	CATEGORY
1	lycra saree	850	2	10	456	Free Size	pink	0	chiffon sarees
2	tases	999	1	20	20	30	red	0	formal shoes

On the right side of the table, there are several 'View' buttons, each corresponding to one of the products listed in the table.

## SOFTWARE TESTING

### Test Case 1

Test Case Id:	Test Scenario:	Test Steps:	Test Data:	Expected Result:	Actual Result:	Pass/Fail
TCID	Check customer login with valid data	1.Go to site 2.Enter user id 3.Enter user password 4. Check submit	User id: 123 Userpassword: R6524	User should login into application.	As expected	Pass

### Test Case 2

Test Case Id:	Test Scenario:	Test Steps:	Test Data:	Expected Result:	Actual Result:	Pass/Fail
TCID2	Check customer Login with invalid data	1. Go to site 2. Enter user id 3. Enter user password 4.Check submit	User id: User password: 567h	User should not Login into application.	As expected	Pass

**Test Case 3**

<b>Test Case Id:</b>	<b>Test Scenario:</b>	<b>Test Steps:</b>	<b>Test Data:</b>	<b>Expected Result:</b>	<b>Actual Result:</b>	<b>Pass/Fail</b>
<b>TCID3</b>	Test user forget password	1. Go to site 2. Enter user id 3. Enter user password: "password forgot" 4. Enter verification code 5. Enter new password. 6. Check submit	User id:3456  User password : "Empty"  Verification code: 8899 Enter new password : bhalli	User should not login into application.	As expected	Pass

**Test Case 4**

<b>Test Case Id:</b>	<b>Test Scenario:</b>	<b>Test Steps:</b>	<b>Test Data:</b>	<b>Expected Result:</b>	<b>Actual Result:</b>	<b>Pass/Fail</b>
<b>TCID4</b>	Test the submit button	1. Go to site 2. Navigate to login/signup page. 3. Fill the form according to the format. 4. Click submit.	User name: NOMAN Akhter  Email: 13005065023@umt.edu.pk  Password: 345y	The user can make new account on this web application	As expected	Pass

## Test Case 5

Test Case Id:	Test Scenario:	Test Steps:	Test Data:	Expected Result:	Actual Result:	Pass/Fail
TCID5	To view the timing slots of venue.	1. Go to site 2. Click on hall name. 3. Check timing slots		User can see the timing slots of venue.	As expected	Pass

## Test Case 6 .

Test Case Id:	Test Scenario:	Test Steps:	Test Data:	Expected Result:	Actual Result:	Pass/Fail:
TCID5	To view the packages venue	1. Go to site 2. Click on hall name. 3. Check packages		User can see packages of entire venue/hall.	As expected	Pass

## LIMITATION AND FUTURE SCOPE OF ENHANCEMENT

Purchasing and selling products and services over the internet without the need of going physically to the market is what online shopping all about. Online shopping is just like a retail store shopping that we do by going to the market, but it is done through the internet. Online shopping has made shopping painless and added more fun.

Online stores offer product description, pictures, comparisons, price and much more. Few examples of these are Amazon.com, ebay.com, [framt.com](http://framt.com) and the benefits of online shopping is that by having direct access to consumer ,the online stores can offer products that cater to the needs of consumer ,cookies can be used for tracking the customer selection over the internet or what is of their interest when they visit the site again .

Online shopping makes use of digital technology for managing the flow of information, products, and payment between consumer, site owners and suppliers. Online shopping can be either B2B (business to business) or B2C (business to consumer).

Online Shopping is one of the important facility provided in online shopping, this lets customer to browse different goods and services and once they select an item to purchase they can place the item in shopping cart, and continue browsing till the final selection.

Customers can even remove the items from shopping cart that were selected earlier before they place the final order. It reminds us of shopping basket that we carry in departmental store.

## REFERENCES

### ➤ Websites :

- <https://www.99acers.com>
- <https://www.magicbricks.com>
- <https://www.easyphpwebsites.com>
- <https://www.bestphpwebsites.com>
- <https://www.phptutorial.com>
- <https://www.geeksforgeeks.org>
- <https://www.tympanus.net>
- <https://www.dribbble.com>
- <https://www.favicon.cc>
- <https://www.pexels.com>